

### Audit Committee Special Meeting Friday, December 9, 2022 at 8:00 a.m.

www.glwater.org

#### **Join Zoom Meeting**

Meeting ID: **851 3007 8118** Passcode: **390459** 

US Toll-free: 888 788 0099 or 877 853 5247

#### **AGENDA**

1. CALL TO ORDER

2. ROLL CALL

3. APPROVAL OF AGENDA

4. APPROVAL OF MINUTES

A. November 18, 2022 (Page 1)

5. PUBLIC PARTICIPATION

6. OLD BUSINESS

7. NEW BUSINESS

- A. *Action Item:* Public Hearings on Proposed FY 2024 Schedule of (Page 7) Revenues and Charges and FY 2024 & FY 2025 Biennial Budget Request
- B. *Action Item:* Authorize Completion and Filing of Audit and Related (Page 17) Draft Reports Pertaining to the Fiscal Year Ended June 30, 2022
- 8. REPORTS
- 9. COMMUNICATIONS
- 10. LOOK AHEAD
  - A. Next Audit Committee Meeting: December 16, 2022
- 11. OTHER MATTERS
- 12. ADJOURNMENT

Note: Binders 1 and 2 have been combined and PDF was renumbered.

Please note PDF pages 21-34 & 36-49 are 8.5 x 14.

### Great Lakes Water Authority



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

#### **Meeting Minutes - Draft**

#### **Audit Committee**

Friday, November 18, 2022

8:00 AM

**Zoom Telephonic Meeting** 

#### **Zoom Telephonic Meeting**

Join Zoom Meeting Here: https://glwater.zoom.us/j/83390733747? pwd=TTBMV2pWd09qcW8yMzB6ek5MN2d0QT09

> Join By Telephone: 888 788 0099 US Toll-free 877 853 5247 US Toll-free Meeting ID: 833 9073 3747

Passcode: 789201

#### 1. Call To Order

Chairperson Baker called the meeting to order at 8:04 a.m.

#### 2. Roll Call

Present: 2 - Chairperson Brian Baker, and Director Gary Brown

Excused: 1 - Jaye Quadrozzi

#### 3. Approval of Agenda

Nicolette Bateson, Chief Financial Officer/Treasurer, requested to move Item 8F. (Quarterly Investment Report - Unaudited) after 6A. (FY 2022 Yearend Financial Audit Update).

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

Motion By: Gary Brown Support By: Brian Baker Action: Approved as Amended

The motion carried by a unanimous vote.

#### 4. Approval of Minutes

Audit Committee Meeting Minutes - Draft November 18, 2022

**A.** 2022-485 Minutes of September 23, 2022

**Sponsors:** Nicolette Bateson

Indexes: Finance

Attachments: 4A September 23, 2022 Audit Committee Meeting Minutes

Chairperson Baker requested a Motion to Approve the September 23, 2022 Audit

**Committee Meeting Minutes.** 

Motion By: Gary Brown Support By: Brian Baker Action: Approved

The motion carried by a unanimous vote.

5. Public Comment

There were no public comments.

6. Old Business

A. 2022-486 FY 2022 Yearend Financial Audit Update

**Sponsors:** Nicolette Bateson

Indexes: Finance

Attachments: 6A FY 2022 Annual Financial Audit Update Memo Oct 2022

6A1 FY 2022 Annual Financial Audit Update BT Timeline

Motion By: Gary Brown Support By: Brian Baker Action: Received and Filed

The motion carried by a unanimous vote.

**8.F.** 2022-540 Quarterly Investment Report (Unaudited)

**Sponsors:** Nicolette Bateson

Indexes: Finance

Attachments: 8F1 Quarterly Investment Report Cover Memo November 2022

8F2 GLWA Quarterly Report September 2022 Final

Motion By: Gary Brown Support By: Brian Baker Action: Received and Filed

The motion carried by a unanimous vote.

7. New Business

2022-487 Α.

> Proposed Change Order No. 7 Contract No. GLWA-CS-002 **Financial Advisor Services**

**Sponsors:** Nicolette Bateson

Indexes: Finance

Motion By: Gary Brown Support By: Brian Baker

Action: Recommended for Approval to the Board of Directors Workshop Meeting

Agenda of December 14, 2022

The motion carried by a unanimous vote.

В. 2022-534 Proposed Calendar Year 2023 Audit Committee Meeting Dates

**Sponsors:** Nicolette Bateson

Indexes: Finance

Attachments: 7B1 2023 Audit Committee Meeting Calendar

7B2 Audit Committee Proposed 2023 Meeting Schedule Notice

Motion By: Gary Brown Support By: Brian Baker

**Action: Approved** 

The motion carried by a unanimous vote.

8. Reports

Α. 2022-535 **CFO Report** 

**Sponsors:** Nicolette Bateson

Indexes: Finance

Attachments: 8A1 CFO Report November 2022

Motion By: Gary Brown Support By: Brian Baker **Action: Received and Filed** 

The motion carried by a unanimous vote.

B. 2022-536 Monthly Financial Report for July 2022

**Sponsors:** Nicolette Bateson

Indexes: Finance

Attachments: 8B July 2022 Financial Report Tagetik

Motion By: Gary Brown Support By: Brian Baker Action: Received and Filed

The motion carried by a unanimous vote.

C. 2022-537 Monthly Financial Report for August 2022

**Sponsors:** Nicolette Bateson

Indexes: Finance

Attachments: 8C August 2022 Financial Report Tagetik

Motion By: Gary Brown Support By: Brian Baker Action: Received and Filed

The motion carried by a unanimous vote.

**D.** <u>2022-538</u> Business Inclusion and Diversity Program Update

**Sponsors:** Nicolette Bateson

Indexes: Finance

<u>Attachments:</u> 8D Business Inclusion and Diversity Program Update

Motion By: Gary Brown Support By: Brian Baker Action: Received and Filed

The motion carried by a unanimous vote.

**E.** 2022-539 Charges Outreach & Modeling Update

**Sponsors:** Nicolette Bateson

Indexes: Finance

Attachments: 8E Charges Outreach and Modeling Update

Motion By: Gary Brown Support By: Brian Baker Action: Received and Filed

The motion carried by a unanimous vote.

Audit Committee Meeting Minutes - Draft November 18, 2022

G. 2022-541 Affordability & Assistance Update

**Sponsors:** Nicolette Bateson

Indexes: Finance

Attachments: 8G1 Affordability and Assistance Update

Motion By: Gary Brown Support By: Brian Baker Action: Received and Filed

The motion carried by a unanimous vote.

H. 2022-542 Semiannual Debt Report

**Sponsors:** Nicolette Bateson

Indexes: Finance

Attachments: 8H Semiannual Debt Report as of 6.30.2022

Motion By: Gary Brown Support By: Brian Baker Action: Received and Filed

The motion carried by a unanimous vote.

9. Communications

A. 2022-543 The Procurement Pipeline for October 2022

Sponsors: Nicolette Bateson

Indexes: Finance

Attachments: 9A Procurement Pipeline for October 2022

No Action Taken

**B.** 2022-544 The Procurement Pipeline for November 2022

**Sponsors:** Nicolette Bateson

Indexes: Finance

<u>Attachments:</u> 9B The Procurement Pipeline for November 2022

No Action Taken

#### 10. Look Ahead

A Special Audit Committee Meeting has been scheduled for Friday, December 9, 2022 at 8:00 a.m.

The next regular Audit Committee Meeting is scheduled for Friday, December 16, 2022 at 8:00 a.m.

Audit Committee Meeting Minutes - Draft November 18, 2022

#### 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 9:18 a.m.



### Financial Services Audit Committee Communication

Date: December 9, 2022

To: Great Lakes Water Authority Audit Committee

From: Lisa L. Mancini, Financial Planning & Analysis Manager

Re: Public Hearings on Proposed FY 2024 Schedule of Revenues and Charges and FY 2024

& FY 2025 Biennial Budget Request

**Background/Analysis:** See attached draft Board Letter.

**Proposed Action:** The GLWA Audit Committee recommends that the Board of Directors authorizes staff to schedule a Public Hearing on Proposed FY 2024 Schedule of Revenues and Charges and a Public Hearing on the FY 2024 & FY 2025 Biennial Budget Request to be held at a Meeting of the Great Lakes Water Authority Board on February 22, 2023, at 2 pm, directs that notice of these Public Hearings be published in a daily newspaper of general circulation, and directs that notice of these Public Hearings be mailed to GLWA member partner communities on or before January 23, 2023.

..Title

Public Hearings on Proposed FY 2024 Schedule of Revenues and Charges and FY 2024 & FY 2025 Biennial Budget Request

..Body

Agenda of: December 14, 2022

Item No.: 2022-557

Amount: N/A

**TO:** The Honorable

**Board of Directors** 

**Great Lakes Water Authority** 

**FROM:** Suzanne R. Coffey P.E.

Chief Executive Officer

Great Lakes Water Authority

**DATE:** December 14, 2022

RE: Public Hearings on Proposed FY 2024 Schedule of Revenues and

Charges and FY 2024 & FY 2025 Biennial Budget Request

#### <u>MOTION</u>

Upon recommendation of Nicolette N. Bateson, Chief Financial Officer/Treasurer, the Board of Directors (Board) of the Great Lakes Water Authority (GLWA), authorizes staff to schedule a Public Hearing on Proposed FY 2024 Schedule of Revenues and Charges and a Public Hearing on the FY 2024 & FY 2025 Biennial Budget Request to be held at a Meeting of the Great Lakes Water Authority Board on February 22, 2023, at 2 pm, directs that notice of these Public Hearings be published in a daily newspaper of general circulation, and directs that notice of these Public Hearings be mailed to GLWA member partner communities on or before January 23, 2023; and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.

#### **BACKGROUND**

The timing of the proposed public hearings is guided largely by contractual commitments as well as following general practice in the public sector.

#### **Contractual Commitments**

Section 7.02 of the GLWA Model Water Contract requires a Public Hearing prior to adoption of the FY 2024 & FY 2025 Biennial Budget. Section 7.02 provides:

"Notification of Rates. As soon as possible in the ratemaking process, the Board shall provide information on proposed rates and the draft data and information used in the calculation of proposed rates in a format that will enable Customer to assist in the ratemaking process. Not less than thirty calendar days prior to the hearing required by Act 279, the Board shall provide Customer with written notice of a proposed rate and the underlying data used to calculate the rate. The Board shall meet with Customer to review the rate and the data."

The GLWA Model Sewer contract has the similar wording in Section 20.02 of that contract.

"Notification of Rates. As soon as possible in the ratemaking process, DWSD [now GLWA] shall provide information on proposed rates and the draft data and information used in the calculation of proposed rates in a format that will enable Customer to assist in the ratemaking process. Not less than thirty calendar days prior to the hearing required by Act 279, DWSD [now GLWA] shall provide Customer with written notice of a proposed rate and the underlying data used to calculate the rate. DWSD [now GLWA] shall meet with Customer to review the rate and the data." [Note that the contracts still reference DWSD; italics noted to infer GLWA.]

#### General Practice in the Public Sector

Michigan Public Act 279 provides that a water or sewerage system which serves more than 40% of the population must hold at least one public hearing at least 120 days before a proposed rate increase is scheduled to take effect. The hearing(s) must be conducted in compliance with the Open Meetings Act (OMA). Notice of the time, date and place of each hearing must be in compliance with the OMA and must be mailed to each city, village or township served by the system not less than 30 days before each hearing.

Although Act 279 does not currently apply to GLWA operations as the population served is close to, but less than, 40%, counsel has been in agreement that GLWA should continue to abide by the notice requirements of Act 279 as the most faithful interpretation of the contract requirements.

#### **JUSTIFICATION**

The timing of the proposed public hearings aligns with the annual financial planning and charge development cycle in process.

#### **BUDGET IMPACT**

Public Hearings on a Proposed FY 2024 Schedule of Charges and FY 2024 & FY 2025 Biennial Budget Request are necessary for the establishment of a current budget and schedule of charges effective July 1, 2023.

#### COMMITTEE REVIEW

A discussion draft budget will be presented to the Audit Committee on December 16, 2022, with further discussion scheduled for the Board of Directors workshop on January 11, 2023, the Board of Directors meeting on January 25, 2023, and the Audit Committee meeting on January 27, 2023 as needed. No action has been sought by either the Audit Committee or GLWA Board at this time.



# GREAT LAKES WATER AUTHORITY NOTICE OF PUBLIC HEARING PROPOSED FY 2024 WATER AND SEWERAGE SERVICE CHARGES

Notice is hereby given that the Great Lakes Water Authority Board of Directors will hold a Public Hearing on Water and Sewerage service charges proposed by the Great Lakes Water Authority for Fiscal Year 2024.

DATE: Wednesday, February 22, 2023

TIME: 2:00 p.m.

PLACE: In person, Zoom Videoconferencing, and Telephonic

Hearing

Join Zoom Meeting

https://glwater.zoom.us/j/81268098609?pwd=TUIrWWNsdkhPcXZzY2MrbWZGdzBLdz09

Meeting ID: 812 6809 8609

Passcode: 076058

In Person (subject to capacity)

Board Room, 5<sup>th</sup> Floor 735 Randolph Street Detroit, Michigan 48226

**Telephonic** 

Public Call-In Number: 877 853 5247 US Toll-Free

or 888 788 0099 US Toll-Free Meeting ID: 812 6809 8609

Passcode: 076058

The proposed service charges are scheduled to take effect on July 1, 2023.

The proposed schedule of charges is available for public inspection online at <a href="https://www.glwater.org/financials/">https://www.glwater.org/financials/</a>.

Individuals or groups wishing to make oral presentations or submit prepared statements pertaining to the proposed service charges may do so at the Public Hearing as outlined in this notice. Individuals or groups wishing to make oral presentations may appear in person but are encouraged to participate via the Zoom as indicated in this notice.



Individuals or groups wishing to make oral presentations are encouraged to participate by Zoom because at this time the State of Michigan, Department of Health and Human Services as well as other local health departments within the GLWA service area have declared emergencies related to the risk of infection associated with the COVID-19 pandemic.

Individuals or groups giving oral presentations are encouraged to also submit their presentations in writing. Oral presentations should be brief to allow all parties the opportunity to participate. A time limit will be imposed based upon registration at the hearing.

The Public Hearing on FY 2024 Water and Sewerage service charges proposed by the Great Lakes Water Authority scheduled for February 22, 2023 at 2:00 p.m. will be held in person, through Zoom videoconferencing, and by telephone through Zoom's telephonic capabilities.

Members of the public may offer comment in the following manners:

By Zoom videoconferencing: Members of the public who wish to use Zoom videoconferencing to attend the meeting and/or offer public comment may utilize the following link to attend:

https://glwater.zoom.us/j/81268098609?pwd=TUIrWWNsdkhPcXZzY2MrbWZGdzBLdz09 During the portions of the hearing designated for public participation may "raise their hand" by using that feature within the software program.

<u>In Person (subject to capacity)</u>: Members of the public who, subject to capacity, wish to attend the meeting and/or offer public comment in person may attend the meeting in the Board Room, 5<sup>th</sup> Floor, 735 Randolph, Detroit, MI 48226.

By Telephone: Members of the public who wish to attend the meeting and/or offer public comment by telephone should call in at the number indicated above, press \*9 on their keypad to "raise their hand for public comment." During other portions of the meeting, members of the public are asked to mute their line by pressing \*6 on their keypad to mute or unmute their line.

By E-Mail: Members of the public may provide written comments to the Board by emailing those comments to CEO@glwater.org on or before 3:00 p.m. on Tuesday, February 21, 2023 and should reference "February 22, 2023 Public Hearing on service charges proposed for Fiscal Year 2024" in the subject line of the e-mail. The opportunity to submit written comments by e-mail may remain open throughout the duration of the Public Hearing.

By U.S. Mail: members of the public may provide written comments by United States mail addressed to:

Suzanne R. Coffey P.E., Chief Executive Officer Great Lakes Water Authority 735 Randolph Detroit, Michigan, 48226



Written comments by U.S. mail should reference "February 22, 2023 Public Hearing on service charges proposed for Fiscal Year 2024" in the letter. The opportunity to submit written comments by U.S. mail may remain open throughout the duration of the Public Hearing.

If a member of the public requires accommodation due to a disability, please contact CEO@glwater.org or (844) 455-GLWA (4592) not less than 72 hours prior to the date of the meeting.



# GREAT LAKES WATER AUTHORITY NOTICE OF PUBLIC HEARING PROPOSED BIENNIAL BUDGET

For the Two-Year Period ended June 30, 2025 (FY 2024 and FY 2025)

Notice is hereby given that the Great Lakes Water Authority Board of Directors will hold a Public Hearing on the proposed FY 2024 and FY 2025 biennial budget.

DATE: Wednesday, February 22, 2023

TIME: 2:00 p.m.

PLACE: In person, Zoom Videoconferencing, and Telephonic

Hearing

Join Zoom Meeting

https://glwater.zoom.us/j/81268098609?pwd=TUIrWWNsdkhPcXZzY2MrbWZGdzBLdz09

Meeting ID: 812 6809 8609

Passcode: 076058

In Person (subject to capacity)

Board Room, 5<sup>th</sup> Floor 735 Randolph Street Detroit, Michigan 48226

Telephonic

Public Call-In Number: 877 853 5247 US Toll-Free

or 888 788 0099 US Toll-Free Meeting ID: 812 6809 8609

Passcode: 076058

The proposed biennial budget is scheduled to take effect on July 1, 2023.

The proposed biennial budget is available for public inspection online at <a href="https://www.glwater.org/financials/">https://www.glwater.org/financials/</a>.

Individuals or groups wishing to make oral presentations or submit prepared statements pertaining to the proposed biennial budget may do so at the Public Hearing as outlined in this notice. Individuals or groups wishing to make oral presentations may appear in person but are encouraged to participate via the Zoom as indicated in this notice.



Individuals or groups wishing to make oral presentations are encouraged to participate by Zoom because at this time the State of Michigan, Department of Health and Human Services as well as other local health departments within the GLWA service area have declared emergencies related to the risk of infection associated with the COVID-19 pandemic.

Individuals or groups giving oral presentations are encouraged to also submit their presentations in writing. Oral presentations should be brief to allow all parties the opportunity to participate. A time limit will be imposed based upon registration at the hearing.

The Public Hearing on the FY 2024 and FY 2025 biennial budget proposed by the Great Lakes Water Authority scheduled for February 22, 2023 at 2:00 p.m. will be held in person, through Zoom videoconferencing, and by telephone through Zoom's telephonic capabilities.

Members of the public may offer comment in the following manners:

By Zoom videoconferencing: Members of the public who wish to use Zoom videoconferencing to attend the meeting and/or offer public comment may utilize the following link to attend:

https://glwater.zoom.us/j/81268098609?pwd=TUlrWWNsdkhPcXZzY2MrbWZGdzBLdz09 During the portions of the hearing designated for public participation may "raise their hand" by using that feature within the software program.

<u>In Person (subject to capacity)</u>: Members of the public who, subject to capacity, wish to attend the meeting and/or offer public comment in person may attend the meeting in the Board Room, 5<sup>th</sup> Floor, 735 Randolph, Detroit, MI 48226.

By Telephone: Members of the public who wish to attend the meeting and/or offer public comment by telephone should call in at the number indicated above, press \*9 on their keypad to "raise their hand for public comment." During other portions of the meeting, members of the public are asked to mute their line by pressing \*6 on their keypad to mute or unmute their line.

By E-Mail: Members of the public may provide written comments to the Board by emailing those comments to CEO@glwater.org on or before 3:00 p.m. on Tuesday, February 21, 2023 and should reference "February 22, 2023 Public Hearing on proposed FY 2024 and FY 2025 biennial budget" in the subject line of the e-mail. The opportunity to submit written comments by e-mail may remain open throughout the duration of the Public Hearing.

By U.S. Mail: members of the public may provide written comments by United States mail addressed to:

Suzanne R. Coffey P.E., Chief Executive Officer Great Lakes Water Authority 735 Randolph Detroit, Michigan, 48226



Written comments by U.S. mail should reference "February 22, 2023 Public Hearing on proposed FY 2024 and FY 2025 biennial budget" in the letter. The opportunity to submit written comments by U.S. mail may remain open throughout the duration of the Public Hearing.

If a member of the public requires accommodation due to a disability, please contact CEO@glwater.org or (844) 455-GLWA (4592) not less than 72 hours prior to the date of the meeting.

Page 17 AGENDA ITEM #7B



### Financial Services Audit Committee Communication

Date: December 9, 2022

**To:** Great Lakes Water Authority Audit Committee

From: Steve Hoover, CPA, Financial Reporting Manager

**Re:** FY 2022 Year-end Financial Audit Update

Background and Analysis: See attached draft Board Letter.

**Proposed Action:** The Audit Committee recommends that the Board of Directors receives and files the Reports Pertaining to the Fiscal Year Ended June 30, 2022 Financial Audit (the FY 2022 Annual Comprehensive Financial Report, FY 2022 Single Audit Act Compliance Report, and FY 2022 Independent Auditor's Communication with those Charged with Governance) and authorizes staff to proceed with the completion and filing of the annual audit reports prior to the due date with the state of Michigan; and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.

..Title

Approval of Audit and Related Draft Financial Reports Pertaining to the Fiscal Year Ended June 30, 2022

..Body

Agenda of: December 14, 2022

Item No.: **2022-556**Amount: Not Applicable

**TO:** The Honorable

Board of Directors

**Great Lakes Water Authority** 

**FROM:** Suzanne R. Coffey, P.E.

Chief Executive Officer

**Great Lakes Water Authority** 

**DATE:** December 14, 2022

RE: Approval of Audit and Related Draft Financial Reports Pertaining to

the Fiscal Year Ended June 30, 2022

#### MOTION

Upon recommendation of Nicolette N. Bateson, Chief Financial Officer/Treasurer, the Board of Directors (Board) of the Great Lakes Water Authority (GLWA), moves to receive and file the Reports Pertaining to the Fiscal Year Ended June 30, 2022 Financial Audit (the FY 2022 Annual Comprehensive Financial Report, FY 2022 Single Audit Act Compliance Report, and FY 2022 Independent Auditor's Communication with those Charged with Governance) and authorizes staff to proceed with the completion and filing of the annual audit reports prior to the due date with the state of Michigan; and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.

#### **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.

With GLWA's reports nearly complete, the next step is review by the GLWA Board of Directors and requested approval to proceed with filing the report with the Michigan Department of Treasury. It should also be noted that staff will file those reports and related information with other parties such as the federal clearinghouse for the single audit report, and the Electronic Municipal Market Access system ("EMMA") for Municipal Securities Rulemaking Board ("MSRB") requirements.

#### **JUSTIFICATION**

The following are attached pertaining to the Fiscal Year Ended June 30, 2022.

- Presentation by Ms. Jodi Dobson, Partner, Baker Tilly US, LLP (external auditor)
- 2. Final Draft FY 2022 Annual Comprehensive Financial Report (ACFR)
- 3. Final Draft FY 2022 Single Audit Act Compliance Report
- 4. Final Draft FY 2022 Independent Auditor's Communication to those Charged with Governance
- 5. Final Draft Informal Management Comment Letter
- 6. Final Draft Management Representation Letter
- 7. Presentation of FY 2022 Annual Financial Results
- 8. One Pager Series: FY 2022 Audit & Financial Results

Drafts of the above reports have been previously distributed to the Audit Committee and the Board.

The process outlined and requested Board action aligns with GLWA's By-laws, ARTICLE XII, Section 2 which states the following.

The Board shall obtain an annual audit of the GLWA's financial statements by an independent certified public accountant and report on the audit and auditing procedures in accordance with state law and generally accepted government auditing standards, as well as federal grant compliance audit requirements. The Board shall furnish at least two copies of the annual audit to each Incorporating Municipality. The audited financial statements shall be posted on the GLWA's website. In addition, the audited financial statements shall be filed with the Michigan Department of Treasury upon approval of the GLWA Board.

#### **BUDGET IMPACT**

Not applicable for the proposed action.

#### **COMMITTEE REVIEW**

The Audit Committee has received updates from staff and auditors on a monthly basis during the course of the year-end audit. On December 9, 2022, the Audit Committee [insert after Audit Committee meeting]

#### SHARED SERVICES IMPACT

This item does not impact the shared services agreement between GLWA and DWSD.



Great Lakes Water Authority
Audit Committee
Draft Report on Fiscal Year 2022
Financial and Single Audit

Presented by:

Jodi Dobson, CPA, Partner Baker Tilly US, LLP

December 9, 2022







## Today's agenda

- > Audit overview
- > Auditor Communication with Those Charged with Governance
- > Internal control communication
- > Questions

### **Audit overview**

- > Audit was conducted smoothly with no major snags or difficulties.
- > Management and staff were cooperative and readily available.
- > Audit schedule was maintained and communication between management and auditors was good.
- > Remote fieldwork began October 3<sup>rd</sup> and concluded October 14<sup>th</sup>.
- > ACFR preparation and review through November.
- > No audit adjusting journal entries were noted.
- > No single audit findings noted.

### **Audit overview**

- > Audit performed in accordance with Generally Accepted Auditing Standards and Government Auditing Standards.
- > Audit is based on assessment of control risk in key business process areas. Below are several key areas of review:
  - -Cash and investments
  - -Revenues and receivables
  - -General disbursements
  - -Payroll
  - -Pension liabilities
  - –Long-term debt
  - Intangible asset and related obligation

- Assets under construction and plant in service
- -Leased assets
- Net position calculations
- Analytical review of statement of net position and statement of revenues, expenses and changes in net position

### **Audit overview**

> Audit objective – obtain reasonable assurance that financial statements are free from material misstatement.

- > Financial statements receive an *Unmodified Opinion* (clean opinion).
- > Single audit results in *Unmodified Opinion* on compliance and controls over major program.

Area to Be Communicated	Auditor's Response
Auditor's View on Qualitative Aspects of Significant Accounting Policies	The significant accounting policies used in the preparation of your financial statements are discussed in Note 1 to the financial statements.
	Accounting estimates are an integral part of the financial statements prepared by management's knowledge and experience about past and current events and assumptions about future events. We feel that all estimates made by management are in accordance with generally accepted accounting principles.

Area to be Communicated	Auditor's Response			
Significant Difficulties Encountered in Performing the Audit	> We encountered no difficulties in performing our audit.			
Uncorrected Misstatements	> By Professional Auditing Standards, uncorrected misstatements refer to immaterial passed audit adjustments – there were no passed audit adjustments.			

Area to be Communicated	Auditor's Response			
Disagreements with Management	Professional standards define a disagreement with management as a matter, whether or not resolved to our satisfaction, concerning a financial accounting, reporting, or auditing matter that could be significant to the financial statements or the auditor's report. We are pleased to report that no such disagreements were encountered during the course of the audit.			
Other Findings or Issues	There are no other issues to disclose as part of the audit in connection with these Professional Auditing Standards.			

Area to be Communicated	Auditor's Response				
Material Corrected Misstatements	Professional standards require us to accumulate all known and likely misstatements identified during the audit, other than those that are trivial, and communicate them to the appropriate level of management.				
	> There were no adjustments as part of this year's audit.				

Area to be Communicated	Auditor's Response			
Management Representations	> We have requested certain representations from management that are included in the			
	management representation letter. A copy of this letter is included with our final communication document.			

Area to Be Communicated	Auditor's Response
Management's Consultations with Other Accountants	Professional standards require the consulting accountant to discuss any such contacts with the current auditor to determine that the consultant has all the relevant facts. We have been involved in any such consultations with other accountants.

Area to be Communicated	Auditor's Response
Auditor Independence	> We are not aware of any relationships between Baker Tilly US, LLP, and Great Lakes Water Authority that, in our professional judgment, may reasonably be thought to bear on our independence.

## Internal control communication

AU-C Section 265

Communicating Internal Control Related Matters Identified in an Audit

Material weaknesses noted in GLWA's internal control:

> None noted

Significant deficiencies noted in GLWA's internal control:

> None noted

### **Thank You!**

We appreciate the work performed by GLWA's accounting staff and management in preparing for and assisting in the audit!

We would be happy to answer any questions regarding the audit.

### One-Pager Series FY 2022 Audit & Financial Results

#### **FY 2022 Financial Audit Results**

Good news! The Great Lakes Water Authority received what is known as a "clean audit" opinion from Baker Tilly, the independent auditors, for the financial audit of the Annual Comprehensive Financial Repot (ACFR) as well as the audit of federal award programs.

#### **Commitment to Quality - All Year Long**

GLWA has a strong commitment to quality in financial reporting on a monthly basis. This means timely, relevant, and reliable information is available for decision makers. For the second year, the *preliminary* year-end operating budget expenses reported were the same as the *final*, *audited* expenses.

#### **Commitment to Transparency**

The audited reports, along with monthly Audit Committee reports, can be found online at the "Financials" page at <a href="https://www.glwater.org">www.glwater.org</a>

#### **Positive Budget Performance**

	<b>Water Fund</b>	Sewer Fund	
Actual Revenue to Budget	\$341 million or 100.5% \$474 million or 10		
Stability and predictability in forecasting revenue is important for GLWA – as well as providing reliable forecasts for Member Partners in our annual charge setting process. Total revenue also includes investment earnings and other sources to help lower the burden on the cost of service.			
Actual Revenue Requirements to Budget	\$333 million or 98%	\$465 million or 98%	

GLWA operated within the budget to meet operational, debt, and other financial commitments. The dollars from this positive variance are used to fund the cost of capital outlay and infrastructure investment and other needs in future years. This also helps to reduce debt as well as relieve pressure on future charges.

#### **Solid Credit Metrics**

**Debt Service Coverage** is an indication of our ability to meet debt service payments and is an important ratio for our creditors to demonstrate that GLWA has sufficient cash

Debt Service Coverage	Water		Sewer	
for the year ended		Rate		Rate
June 30, 2022	GAAP	Covenant	GAAP	Covenant
Senior Lien Bonds	2.01	1.88	2.66	2.35
Senior and second lien bonds	1.46	1.37	1.90	1.68
All bonds, including SRF junior lien	1.41	1.33	1.47	1.30

to repay its bondholders. GLWA uses two methodologies: the GAAP methodology is mostly based on an accrual basis; the rate covenant methodology is based on a cash basis.

**Days Cash on Hand** demonstrates that sufficient funds are available to maintain and operate the systems. It also reduces GLWA's reliance on borrowing which becomes a long-term burden on affordability. Days cash on hand is calculated as unrestricted cash divided by one day of operating expense. At the end of fiscal year 2022, the days cash on hand was 622 days for the water system and 574 days for the sewer system.



### FY 2022 Annual Audit and Financial Reports

Board of Directors Workshop | December 14, 2022 Financial Services Area



## **Annual Audit Results**



### **Annual Audit Results – Key Highlights**

- Audit Firm is Baker Tilly
  - Audit Services are bid every three years
  - Baker Tilly was selected by the Audit Committee and Approved by the Board of Directors in April 2022
- Great News! Unqualified opinion with no auditor adjustments for both the a) Annual Comprehensive Financial Report and b) Statement of Expenses and Federal Awards
  - Also known as a "clean" audit opinion
- Even better! Another year with a clean internal control report
  - Two minor comments carried forward from FY 2021 which are being addressed





# **FY 2022 Financial Report Highlights**



### **ACFR Contents**

- ✓ ACFR = Annual Comprehensive Financial Report
- ✓ Prepared in accordance with Generally Accepted Accounting Standards (GAAP)
- ✓ Report content aligns with criteria to apply for the Government Finance Officers Association (GFOA) Certificate of Achievement for Excellence in Financial Reporting (earned by GLWA in prior three years – 2019 through 2021)
- ✓ Key Sections:
  - ✓ Transmittal Letter page i
  - ✓ Independent Auditors Report page 1
  - ✓ Management's Discussion & Analysis page 4
  - ✓ Basic Financial Statements (including footnotes) page 29
  - ✓ Required Supplementary Information page 89
  - ✓ Supplementary Information page 94
  - ✓ Statistical Section page 114
    - ✓ Financial Trends (115), Revenue Capacity (124), Debt Capacity (130), Demographic and Economic Information (142), and Operating Information (144)



### What are the overall financial results for FY 2022?

- ✓ The "Management
   Discussion & Analysis" in summarizes Basic
   Financial Statements
   overall for the combined
   Water & Sewer Funds
- ✓ Positive "Operating Income" offset set by Nonoperating expenses (largely interest on debt and depreciation)
- ✓ The following slides provide further analysis

			Changes in Ne	et Postion (\$00	00)			
		Fiscal Year		Change 2022	2 vs 2021	Change 202	1 vs 2020	
	2022	2021	2020	Amount	Percent	Amount	Percent	
Operating revenues	\$ 816,345	\$ 815,369	\$ 800,889	\$ 976	0.1%	\$ 14,479	1.8%	
Operating expenses	609,951	579,460	593,153	30,491	5.3%	(13,693)	-2.3%	
Operating income	206,394	235,909	207,736	(29,514)	-12.5%	28,173	13.6%	
Nonoperating revenues (expenses)	(222,552)	(230,424)	(234,449)	(7,871)	-3.4%	(4,025)	-1.7%	
Income (loss) before capital contributions	(16,158)	5,485	(26,713)	(21,643)	-394.6%	32,198	120.5%	
Capital contributions	6,991	5,960	5,960	1,031	17.3%		0.0%	
Change in net position	(9,167)	11,445	(20,753)	(20,612)	-180.1%	32,198	155.2%	
Net position (deficit), beginning of year	(210,132)	(221,578)	(200,825)	11,445	5.2%	(20,753)	-10.3%	
Net position (deficit), end of year	\$ (219,299)	\$ (210,132)	\$ (221,578)	\$ (9,167)	-4.4%	\$ 11,445	5.2%	

Source: FY 2022 ACFR Page 9



### Why is there a net deficit? Is there a plan to cure?

- ✓ Net Position remains in a deficit position of \$219 million mainly due to the revaluation of assets and acquisition of debt as part of the standup of GLWA on January 1, 2016.
- ✓ The increase in asset values results in higher depreciation expense in the short-term.
- ✓ The positive increase in the net investment in capital assets is due to the reductions in debt and increase in capital asset additions being larger than the depreciation expense.
- ✓ The decrease in unrestricted is due to the planned use of I&E funds to fund capital additions. This is part of the long-term strategic goal to reduce reliance on debt to fund capital expenditures.
- ✓ The GLWA long-term financial forecast anticipates a positive net position by FY 2030.

	Net Postion (\$000)								
		Fiscal Year		Change 2022	2 vs 2021 Change 2021 vs 2				
	2022	2021	2020	Amount	Percent	Amount	Percent		
Net position (Deficit) Net investment in capital assets Restricted for debt service	(194,715) 123,415	(302,012) 114,545	(351,219) 105,283	107,297 8,870	-35.5% 7.7%	49,206 9,262	-14.0% 8.8%		
Restricted for payment assistance program	12,318	11,043	8,988	1,275	11.5%	2,055	22.9%		
Unrestricted	(160,317)	(33,707)	15,370	(126,609)	375.6%	(49,078)	-319.3%		
Total net position (deficit)	(219,299)	\$ (210,132)	\$ (221,578)	\$ (9,167)	4.4%	\$ 11,445	-5.2%		

Source: FY 2022 ACFR Page 7



### **How did the Operating Expense Budget perform?**

- ✓ Audited Total Combined Actual Operating Expense results of \$319 million were consistent the preliminary results presented in September 2022
- ✓ Personnel costs are under budget due to a tight labor market and staff turnover
- ✓ Contractual services under budget due to project delays due to competing priorities and staff vacancies
- ✓ Supplies & Other are under budget due to supply chain issues (technology equipment) and slower return to pre-COVID level of activities (national training, travel, projects)

SCHEDULE OF OPERATING EXPENSES FOR COMBINED WATER AND SEWER OPERATIONS FUNDS - BUDGET TO ACTUA
For the Year Ended June 30, 2022

				Final				Variance	Percent	
		Original		Amended			Over (Under)		Over (Under)	
		Budget		Budget		Actual	Amended Budget		Amended Budget	
Operating Expenses										
Personnel	5	115,437,246	\$	111,868,550	\$	107,053,390	\$	(4,815,160)	-4.30%	
Contractual services		103,375,858		111,198,547		107,713,902		(3,484,645)	-3.13%	
Utilities		50,398,081		59,383,193		59,655,751		272,558	0.46%	
Chemicals		16,044,300		19,842,300		20,382,163		539,863	2.72%	
Supplies and other expenses		38,559,562		34,392,583		29,069,352		(5,323,231)	-15.48%	
Capital program allocation		(3,470,948)		(2,684,248)		(2,632,136)		52,112	-1.94%	
Intergovernmental reimbursements		(1,892,500)		(3,202,160)		(2,584,890)		617,270	-19.28%	
Centralized services allocation		_		-		-		-	0.00%	
Administrative services allocation		-		-		-		-	0.00%	
Unallocated reserve		6,782,001		4,402,435				(4,402,435)	-100.00%	
Total operating expenses before depreciation										
and amortization financial reporting basis		325,233,600		335,201,200		318,657,532		(16,543,668)		
SBITA		_		321,600		321,506		(94)	0.00%	
Warehouse lease				319,600		319,584	_	(16)	-0.01%	
TOTAL OPERATING EXPENSES BUDGET BASIS	S	325,233,600	\$	335,842,400	S	319,298,622	s	(16,543,778)	-4.93%	
	-		-		-				,	

Source: FY 2022 ACFR Page 103



### How⁴did the Water System Revenue Requirements perform?

				Variance
	2022			Over (Under)
	Adopted	2022 Amended	2022	Amended
	Budget	Budget	Actual	Budget
Revenues				
Revenue from charges				
Suburban wholesale customers [1]	\$ 321,110,900	\$ 315,010,900	\$ 316,529,785	\$ 1,518,885
Local system charges	21,697,300	21,697,300	21,697,300	
Total revenue from charges	342,808,200	336,708,200	338,227,085	1,518,885
Other revenue [2]	175,000	684,400	775,537	91,137
Investment earnings [3]	1,047,300	1,923,800	1,945,613	21,813
Total Revenues	\$ 344,030,500	\$ 339,316,400	\$ 340,948,235	\$ 1,631,835
Revenue Requirements				
Operations and maintenance [4]	\$ 143,933,800	\$ 143,933,800	\$ 136,436,567	\$ (7,497,233)
General Retirement System legacy pension	6,048,000	6,048,000	6,048,000	-
Debt service	135,481,000	135,121,000	136,039,760	918,760
General Retirement System accelerated pension	6,268,300	6,268,300	6,268,300	-
Water Residential Assistance Program contribution	1,705,500	1,705,500	1,705,500	-
Regional system lease	22,500,000	22,500,000	22,500,000	-
Transfer to the Improvement & Extension Fund	28,093,900	23,739,800	23,739,800	
Total Revenue Requirements	\$ 344,030,500	\$ 339,316,400	\$ 332,737,927	\$ (6,578,473)
Revenue Requirement Variance	\$ -	\$ -	\$ 8,210,308	\$ 8,210,308

- ✓ Revenue Requirements are the basis for establishing Member Partner Charges
- ✓ The goal is to net to zero as the "bottom line"
- ✓ To extent there is a positive variance, those funds support an improve financial position for subsequent years
- ✓ The net positive variance of \$8.2 million is within 2.4% of the adopted budget of \$344 million
- ✓ This schedule also shows that GLWA met all of its financial and contractual commitments for the General Retirement System legacy pension, Water Residential Assistance Program, Regional System Lease
- ✓ All debt payments were made as required; the variance is due to estimates related to timing

Source: FY 2022 ACFR page 104



### How did the Sewage Disposal System Revenue Requirements perform?

				Variance
	2022			Over (Under)
	Adopted	2022 Amended	2022	Amended
	Budget	Budget	Actual	Budget
Revenues				
Revenue from charges				
Suburban wholesale customers	\$ 272,130,000	\$ 268,130,000	\$ 268,813,369	\$ 683,369
Local system charges	188,662,200	188,662,200	188,662,200	-
Industrial waste control	9,024,800	8,324,800	8,300,278	(24,522)
Pollutant surcharges	4,188,900	5,088,900	5,181,816	92,916
Total revenue from charges	474,005,900	470,205,900	470,957,663	751,763
Other revenue [1]	400,000	538,000	817,448	279,448
Investment earnings [2]	1,023,300	1,876,200	1,842,475	(33,725
Total Revenues	\$ 475,429,200	\$ 472,620,100	\$ 473,617,586	\$ 997,486
Revenue Requirements				
Operations and maintenance [3]	181,299,800	191,908,600	182,862,055	(9,046,545)
General Retirement System legacy pension	10,824,000	10,824,000	10,824,000	-
Debt service	207,209,500	204,984,500	206,490,151	1,505,651
General Retirement System accelerated pension	11,620,700	11,620,700	11,620,700	-
Water Residential Assistance Program contribution	2,358,300	2,358,300	2,358,300	-
Regional system lease	27,500,000	27,500,000	27,500,000	-
Transfer to the Improvement & Extension Fund [4]	34,616,900	23,424,000	23,424,000	
Total Revenue Requirements	\$ 475,429,200	\$ 472,620,100	\$ 465,079,206	\$ (7,540,894)
Revenue Requirement Variance	\$ -	\$ -	\$ 8,538,380	\$ 8,538,380

- ✓ Revenue Requirements are the basis for establishing Member Partner Charges
- ✓ The goal is to net to zero as the "bottom line"
- ✓ To extent there is a positive variance, those funds support an improve financial position for subsequent years
- ✓ The net positive variance of \$8.5 million is within 1.8% of the adopted budget of \$475 million
- ✓ This schedule also shows that GLWA met all of its financial and contractual commitments for the General Retirement System legacy pension, Water Residential Assistance Program, Regional System Lease
- ✓ All debt payments were made as required; the variance is due to estimates related to timing

Source: FY 2022 ACFR page 105



### How did the Improvement & Extension Funds Perform?

Water I&E Fund (Source: FY 2022 ACFR page 107)

	Adopted Budget		•		Actual [3]		_	Variance Over (Under) Amended Budget
Inflows								
Revenue transfers	\$	28,093,900	\$ 23,739,800	\$	23,739,800	\$	-	
Investment earnings [1]		-	 1,329,000		1,335,993		6,993	
Total Inflows		28,093,900	25,068,800		25,075,793		6,993	
Outflows								
Capital spending other (net operating expenses)		-	1,500,000		1,540,154		40,154	
Capital outlay		17,006,600	6,288,092		3,668,396		(2,619,696)	
GASB 96 transfer to operating fund [2]		-	-		253,171		253,171	
Investment earnings transfer out [1]		-	1,329,000		1,879,155		550,155	
Revenue financed capital -								
transfer to Water Construction Fund		108,308,000	 142,635,308		124,161,444		(18,473,864)	
Total Outflows		125,314,600	151,752,400		131,502,320		(20,250,080)	
Net Increase (Decrease) - Budget Basis	\$	(97,220,700)	\$ (126,683,600)		(106,426,527)	\$	20,257,073	
Non-budgeted inflows (outflows)								
Unrealized net decrease in fair value of investmer	nts				(2,793,070)			
Combining Schedule Water I&E Fund Change in	Net	Position [3]		\$	(109,219,597)			

Sewer I&E Fund (Source: FY 2022 ACFR page 108)

	Adopted Budget		Amended Budget		Actual [3]			Variance Over (Under) Amended Budget
Inflows								
Revenue transfers	\$	34,616,900	\$	23,424,000	\$	23,424,000	\$	-
Receipt of DWSD shortfall receivable payments		406,400		144,900		8,441,496		8,296,596
Investment earnings [1]		-		1,004,900		855,242		(149,658)
Total Inflows		35,023,300		24,573,800		32,720,738		8,146,938
Outflows								
Capital spending other (net operating expenses)		_		722,200		4,536,959		3,814,759
Capital outlay		15,965,100		9,137,700		8,080,463		(1,057,237)
GASB 96 transfer to operating fund [2]		-		-		560,971		560,971
Investment earnings transfer out [1]		-		1,004,900		876,480		(128,420)
Revenue financed capital -								
transfer to Sewer Construction Fund		47,546,000		63,279,200		48,145,694	_	(15,133,506)
Total Outflows		63,511,100		74,144,000		62,200,567		(11,943,433)
Net Increase (Decrease) - Budget Basis	\$	(28,487,800)	\$	(49,570,200)		(29,479,829)	\$	20,090,371
Non-budgeted inflows (outflows)								
Transfer for FY 2020 DWSD shortfall [4]						10,817,815		
Unrealized net decrease in fair value of investmen	nts					(1,732,451)		
Other transfers in						281,498		
Combining Schedule Sewer I&E Fund Change in	Net F	Position [3]			\$	(20,112,967)		

✓ The Improvement & Extension (I&E) Funds reflect a planned use of revenue financed capital to fund capital projects to reduce the reliance on debt financing.



#### Page 47

### **How did the Construction Funds perform?**

#### Water Construction Fund (Source FY 2022 ACFR page 109)

		Adopted Amended Budget Budget				Actual [2]	Variance Over (Under) Amended Budget		
Inflows									
Transfers from Water Improvement & Extension Fund State revolving loans Investment earnings [1]	\$	108,308,000 26,100,000	\$	142,635,300 27,000,000	\$	124,161,444 25,642,083 32,093	\$	(18,473,856) (1,357,917) 32,093	
investment earnings [1]	_	<u>-</u>		<u>-</u>	_	32,093	_	32,093	
Total Inflows		134,408,000		169,635,300		149,835,620		(19,799,680)	
Outflows									
Investment earnings transfer out [1]		-		-		31,890		31,890	
Capital projects	_	134,408,000		169,635,300	_	157,628,118		(12,007,182)	
Total Outflows		134,408,000		169,635,300	_	157,660,008		(11,975,292)	
Net Increase (Decrease) - Budget Basis	\$	-	\$			(7,824,388)	\$	(7,824,388)	
Non-budgeted inflows (outflows) Unrealized net increase in fair value of investments						480			
Combining Schedule Water Construction Fund Chan	\$	(7,823,908)							

#### **Sewer Construction Fund** (Source: FY 2022 ACFR page 110)

			Adopted Budget		Amended Budget	 Actual [2]	Variance Over (Under) Amended Budget
-	Inflows Transfers from Sewer Improvement & Extension Fund State revolving loans Transfer from operations fund-proceeds from sale of assets Investment earnings [1]	\$	47,546,000 31,992,000 - -	\$	63,279,200 10,000,000 - -	\$ 48,145,694 9,215,214 200,000 26,444	\$ (15,133,506) (784,786) 200,000 26,444
-	Total Inflows		79,538,000		73,279,200	57,587,352	 (15,691,848)
4	Outflows Investment earnings transfer out [1] Capital projects		- 79,538,000		73,279,200	26,475 65,148,518	26,475 (8,130,682)
-	Total Outflows		79,538,000		73,279,200	65,174,993	 (8,104,207)
-	Net Increase (Decrease) - Budget Basis	\$	_	\$	-	(7,587,641)	\$ (7,587,641)
	Non-budgeted inflows (outflows) Unrealized net increase in fair value of investments					 481	
	Combining Schedule Sewage Disposal Construction Fund C	hang	e in Net Positio	n [2	l	\$ (7,587,160)	

- ✓ The Construction Funds expenditures for Water were \$12 million less than the amended budget and Sewer were \$8 million less than the amended budget
- ✓ There were no bond funds remaining at June 30, 2022
- ✓ The I&E Fund has been providing the cash to the Construction Fund for the fiscal year in addition to the state revolving fund loans





# Direct Contributors and Participants in the Annual Financial Audit

Excellence in financial management and a commitment to strong internal controls is supported by all GLWA team members.

Every successful audit is the result of collaboration and partnership between GLWA team members and our auditors. We are pleased to acknowledge the efforts of those directly involved in the audit from all areas of GLWA in addition to the Board of Directors Audit Committee and GLWA Executive Leadership Team.

#### **GLWA Contributors**

Alicia Schwartz	Angela Stevenson	Cindy Cezat	Connie Delling	Dana Bierer
De'Ashia Taylor	Deirdre Henry	Desiree Barrett	Dionna Wilson	Guy Belew
Jay Oswalt	Jill Kosters	Tina Gillery	Keiano Vanzant	Kathy Smith-Roy
Kim Garland	Lisa Mancini	Lynn Herrick	Michael Gould	Michelle Burt
William Baker	Nick Fedewa	Phyllis Walsh	Regina Washington	Robert Arbaugh
Scott Schultz	Scott Juryn	Sherrian Greenwood	Sonya Beaver	Sonya Collins

#### **Baker Tilley Auditors**

Steve Hoover

Gwen Zech Jodi Dobson Mariela Perez Arredondo

Terence Anderson



#### DRAFT as of December 5, 2022 for Audit Committee Review

#### **GREAT LAKES WATER AUTHORITY**

Southeast Michigan

ANNUAL COMPREHENSIVE FINANCIAL REPORT

Including Independent Auditors' Report

Fiscal Year Ended June 30, 2022

Prepared By:

**Great Lakes Water Authority Financial Services Area** 

#### **GREAT LAKES WATER AUTHORITY**



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#### **GREAT LAKES WATER AUTHORITY**



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**INTRODUCTORY SECTION** 





#### TRANSMITTAL LETTER

December 14, 2022

Board of Directors Great Lakes Water Authority

Directors,

We are pleased to present the Annual Comprehensive Financial Report ("ACFR") for the Great Lakes Water Authority ("GLWA" or "Authority") for the fiscal year which ended June 30, 2022.

#### **About this Annual Comprehensive Report**

The accompanying financial statements for GLWA were prepared in accordance with U.S. generally accepted accounting principles ("GAAP"), as promulgated by the Governmental Accounting Standards Board ("GASB") and audited by a firm of independent certified public accountants engaged by the GLWA Board of Directors. This is consistent with the GLWA Articles of Incorporation and Bylaws which require an annual audit of the Authority's financial statements by independent certified public accountants.

Responsibility for the accuracy of the data and the completeness and fairness of the presentation, including all disclosures, rests with GLWA management. To the best of our knowledge and belief, the information contained in this report is accurate in all material respects and is reported in a manner designed to present fairly the financial position and results of operations of GLWA. All disclosures necessary for the reader to gain an understanding of GLWA's financial activity have been included.

GLWA management is responsible for establishing and maintaining an internal control structure designed to ensure that its assets are adequately safeguarded against loss, theft, or misuse and to maintain accurate and reliable financial records for the preparation of financial statements and the representations made by management. The internal control structure is designed to provide reasonable, but not absolute, assurance that these objectives are met. The concept of reasonable assurance recognizes that: 1) the cost of internal controls should not exceed the benefits derived from the controls; and 2) the evaluation of costs and benefits requires management's exercise of judgment. To the best of our knowledge and belief, GLWA's internal accounting controls adequately safeguard its assets and provide reasonable assurance of the proper recording of financial transactions in accordance with GAAP.

Baker Tilly US, LLP, Certified Public Accountants, has been retained by GLWA to serve as its independent auditors and has issued an unmodified ("clean") opinion on GLWA's financial statements for the year ended June 30, 2022, with comparative amounts for June 30, 2021.



GAAP requires that management provide a narrative introduction, overview, and analysis to accompany the basic financial statements in the form of Management's Discussion and Analysis ("MD&A"). This letter of transmittal is designed to supplement the MD&A and should be read in conjunction with it. GLWA's MD&A is located immediately following the independent auditors' report.

#### **Overview of GLWA**

The creation of GLWA was the outcome of an historic collaboration among regional leaders at the time of the City of Detroit's Chapter 9 Bankruptcy. The creation of a regional water authority was outlined in a memorandum of understanding on September 9, 2014 ("2014 MOU"). Subsequently, on November 26, 2014, GLWA was incorporated by the City of Detroit ("City"), and the counties of Macomb, Oakland, and Wayne pursuant to Act 233, Public Acts of Michigan, 1955, as amended. At the time of GLWA's incorporation, the City, through its Detroit Water and Sewerage Department ("DWSD"), was providing water supply services within and outside of the City through a water supply system and drainage and sewage disposal services within and outside of the City through a sewage disposal system. The purpose of GLWA is to operate, control, and improve the regional assets of both the Water System and Sewage Disposal System owned by the City which were operated by DWSD. The purpose of DWSD is to be the local service provider for the retail system, which is largely the City of Detroit customer base, including a few retail customers located just outside the City of Detroit. GLWA began operating the systems on January 1, 2016.

GLWA leases the regional water and sewage disposal facilities from the City for an allocation of \$50 million per year to fund capital improvements for the City's retail system and/or debt obligations associated with providing water and sewer service to the City.

The structure that launched GLWA also provided an opportunity to fund a Water Residential Assistance Program ("WRAP") to assist eligible low-income residential households in our member partner communities.

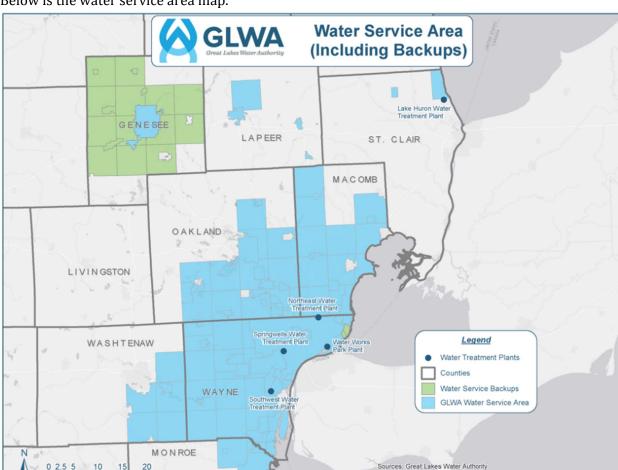
At GLWA, we define "member partner" as the city, township, village, drainage district, authority or other public body corporate recognized by the state of Michigan that holds a wholesale water or wastewater disposal services contract with GLWA and includes its staff and consultants. Our member partners are actively engaged with GLWA and supported by a facilitated outreach program to ensure open, ongoing, and proactive relationships.

#### **Regional Water System**

Our regional water system is one of the largest in the United States, both in terms of water produced and population served. The system currently serves an area of 1,698 square miles with an estimated population of nearly 3.8 million or approximately 38 percent of Michigan's population. The water system has 88 member partners across 112 communities.

The water supply system consists of three intake facilities, five water treatment plants, 19 booster pumping stations, 32 water storage reservoirs and a conveyance system with over 816 miles of transmission mains. The facilities have the treatment capacity of 1,720 million gallons per day.





Below is the water service area map.

#### **Regional Wastewater System**

Our regional wastewater system is also one of the largest in the United States, both in terms of treatment capacity and population served. The wastewater system currently serves an area of 944 square miles with an estimated population of nearly 2.8 million or approximately 28 percent of Michigan's population. The wastewater system has 19 member partners across 79 communities.

The wastewater system consists of one of the largest single-site water resource recovery facilities in the United States, three major interceptors, nine pump stations, eight Combined Sewer Overflow ("CSO") Control Facilities, including five retention treatment basins and three flow-through type facilities, as well as a conveyance system with 195 miles of trunk sewers and interceptors.

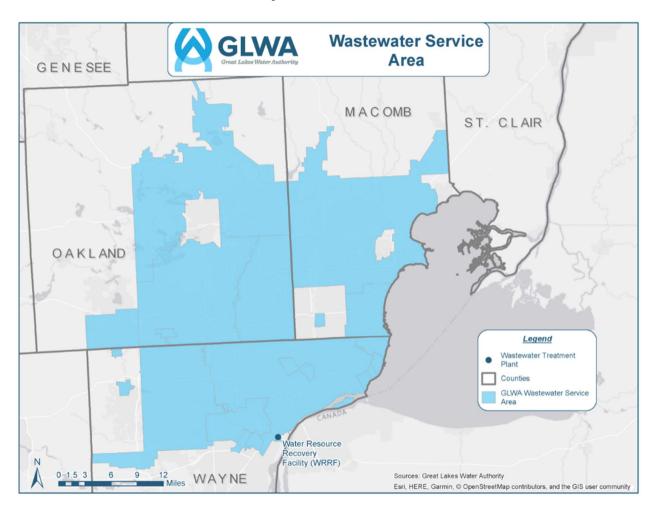
The long-term strategy for the wastewater treatment and sewage disposal system is a focus on regional efficiencies. The 2020 Wastewater Master Plan ("WWMP") was adopted by the Board in September 2020. The WWMP was created with incredible energy, insight, and direction from a broad cross section of our member partners working collaboratively with our team members and consultants and other regional stakeholders. The focus, approach and outcomes of the plan demonstrate the true spirit of the One Water Partnership that GLWA and our member partners are

Esri, HERE, Garmin, @ OpenStreetMap contributors, and the GIS user community



committed to for the benefit of southeast Michigan. The 40-year master plan focuses on water quality, leveraging the entire region's existing infrastructure, maximizing the use of dynamic wet weather operations, strategic use of green infrastructure, addressing changes in weather patterns and rain event intensities, extensive system modeling including surface water and wastewater treatment, evaluation of resource recovery options and energy reduction opportunities.

Below is the wastewater service area map.



#### **Local Economy**

The City of Detroit is experiencing significant growth driven by large scale redevelopment and major corporations increasing their presence or relocating. Southeast Michigan's largest employers are comprised mostly of automobile manufacturers and health care systems. There has not been much change in the population of the service area. Due to the COVID-19 pandemic, the annual average unemployment rate increased to 11.5 percent in 2020 but has trended downward and is at 4.6 percent in June 2022. Per capita income has had a steady increase over the years.



#### **Budget Process**

GLWA has a rigorous budget process. Annually, a biennial budget and five-year plan are prepared concurrently. This process begins soon after the current fiscal year begins with the operating area budget managers. A preliminary budget is presented to the Audit Committee in December and then to the full Board in January. It is also presented to our member partners for comments during the charge development process. The final proposed biennial budget and five-year financial plan, as well as a five-year capital improvement plan ("CIP"), is presented to the Board during a public hearing in February. Once approved, the budget takes effect on July 1st.

The legal level of budgetary control is the bottom line of each of the budgeted revenue requirements to align with the charge setting process. Components of the revenue requirements are referred to as appropriation categories. The budget shall not be increased or decreased by appropriation category without prior Board authorization. The Board is provided a detailed budget by line item which supports the totals in each appropriation category at the time of budget approval. The Chief Financial Officer may exercise discretion to modify the detail budget line items within each appropriation category.

The budget is prepared on a modified cash basis and the revenue requirements are determined based upon the cash needed to meet the expenditures as required by the Master Bond Ordinances ("MBOs"). A budget to actual comparison is included in the Schedule of Revenue Requirements in the Supplementary Information. A crosswalk is provided in the Supplementary Information that provides a reconcilement between budget basis results in the Schedule of Revenue Requirements to the accrual basis results in the Statement of Revenues, Expenses and Changes in Net Position.

#### The 4% Promise

Affordability and sustainability were primary concerns in establishing the regional water authority. The mechanism to achieve that balance was the "4% Promise" as established in the foundational documents for GLWA. The 4% Promise requires that the annual revenue requirement does not increase by more than 4 percent in any one year for the first 10 years of the Authority's existence. The revenue requirement includes operations and maintenance (0&M) expense, debt service, system lease payments, legacy pension, funding for WRAP, funding for the capital program via Improvement & Extension Fund contributions and any other expenditure or funding as required by the MBOs. With a strong commitment to affordability, GLWA has stayed well under that promise with an average annual revenue requirement adjustment of 1.6 percent for the water fund and 1.1 percent for the sewage disposal fund from FY 2017 through FY 2023.

#### **Long-term Financial Planning**

GLWA annually updates a 10-year financial forecast as a roadmap to achieve one of the organizational goals of a solid AA category rating, by meeting or exceeding rating agency criteria. The path to achieve a solid AA credit rating is based upon rebalancing the mix of debt financing and revenue generated capital (also known as pay-as-you go) to fund the CIP. GLWA has delivered in reducing the annual revenue dollars that are dedicated to debt service with an effective debt refunding program.



There was no debt refunding activity during the fiscal year ended June 30, 2022, however sewage disposal bonds were refunded in September 2022 which resulted in a net present value economic gain of approximately \$212,000. This transaction also achieved a \$1.6 million reduction in reserve requirements and future cash flow savings of \$1.96 million. Since GLWA's operational inception in 2016, refunding transactions have achieved a) reductions in debt reserve requirements of \$105.9 million and b) future cash flow savings of \$718.2 million with a net present value economic gain of \$440.7 million. These savings have a material impact on GLWA's ability to keep the annual revenue requirement adjustments and related charge adjustments at an amount well below the consumer price index.

This financial achievement demonstrates the strength, stability, and best-in-class performance that the regional stakeholders and leadership team envisioned when the concept of a regional authority emerged in 2014. Further, we believe that our transparency and accessibility in addressing questions from rating agencies, as well as investors, contributed to successful outcomes in uncertain times. The result is rating agency improvements since the operational effective date of the Authority. Moody's Investor Services has increased the ratings 5 notches, Fitch Ratings has increased the ratings 4 notches and Standard & Poor's has increased the ratings 3 notches. With the recent 2022 transactions, Fitch Ratings moved the outlook to Positive from Stable for the wastewater system and Moody's Investors Service moved the outlook to Positive from Stable for both the water and sewage disposal systems.

#### **Major Initiatives**

Economic Outlook Task Force - A rare combination of supply chain constraints and sharp demand increases have driven unprecedented cost increases in both capital and operating expenses – most notably over the past 24 months. By way of example, since early 2021, the cost of steel is up 76 percent, electrical equipment 30 percent, and chlorine is up 80 percent. GLWA is not exempt from these national trends and faces difficult choices in managing the operating and capital budgets. In response, GLWA formed an Economic Outlook Task Force ("EOTF") to analyze current trends, forecast future price increases, and offer mitigation strategies. Recently, the EOTF's Phase 1 report which offers both short-term and long-term cost pressure mitigation strategies, was presented to the Board. It addresses forecasting strategies, capital project portfolio management, and other risk and cost mitigation actions such as modifying vendor contract terms.

Capital Improvement Program - The majority of the GLWA FY 2023–2027 five-year CIP is driven by optimizing the system and maintaining reliability. There are no projects in the water system or sewer system CIP which have costs that will be incurred during FY 2023 to 2027 that are driven by mandated permit requirements. The water system CIP calls for \$965.6 million of major capital expenditures over the next five fiscal years (2023-2027) and the sewer system CIP calls for \$761.8 million of capital expenditures over the same period. The staff from Michigan Department of Environment, Great Lakes, and Energy ("EGLE") regularly engage with GLWA on capital project matters to ensure alignment and open dialog to achieve optimal results.

*One Water Partnership* - The One Water Partnership Agreement between GLWA and its member partners outlines the mutual commitments to working together for the greater good of the region, detailing the responsibilities of all parties and a commitment to a multi-jurisdictional, multi-agency



approach to infrastructure renewal and investment. GLWA's collaborative relationship with its customers is foundational to its operations wherein GLWA works with its customers as member partners. Recently, the 2022 Member Partner Outreach Scorecard was released which provided an overall satisfaction survey at 90% with communication, transparency, and responsiveness as key strengths. Not surprisingly, shared concern of capital project cost increases was noted in the survey results.

Payment Assistance Program - WRAP set aside \$4.1 million of resources to support customer assistance needs in the region for the year ended June 30, 2022. Services include payment assistance, consumption audit, basic plumbing repairs, conservation education, and limited lead fixture replacement. This means that qualified households can receive payment assistance, as well as take steps to sustainably reduce their bills in the future. In October 2022, the new WRAP Income Based Plan ("IBP") was launched to provide eligible households with payment assistance that limits the household cost for services to 3 percent. The IBP was the result of extensive research which GLWA believes to be a nationally leading program design.

Workforce Development – At a time when many employers are facing labor shortages and turnover due to retirement, GLWA is focused on continuing to expand workforce development and succession planning. Developed in partnership with Focus: HOPE and approved by the US Department of Labor, GLWA's apprenticeship program successfully demonstrates a "learn-while-you-earn" model with onthe-job training and education at no cost to the participants. In partnership with Focus: HOPE, and several educational providers, GLWA has launched four multiple-year apprenticeships. A successful outcome is for apprentices to remain with GLWA post-apprenticeship.

Business Inclusion and Diversity Initiative - On November 25, 2020, the GLWA Board of Directors approved an amendment to the procurement policy that establishes the submission of a diversity plan for all procurements over \$1 million to ensure that the vendor community is aligned with GLWA's values for a diverse vendor base. The amendment also provides incentives to business located in our state, services area, and in economically disadvantaged communities among our member partner communities. The launch of the Business Inclusion & Diversity ("BID") program significantly strengthens the Small Business Initiative and the Strategic Alliance Memorandum executed with the United States Small Business Administration ("SBA") in 2018 to meet the needs of the small business community and engagement in GLWA business opportunities. The inaugural annual report for the BID program was issued in September 2022 with excellent results – 65 percent of eligible procurements were awarded to firms that met the diversity certification criteria as a disadvantaged, minority-owned, women-owned or small business enterprise for a total of \$121 million.

#### **FY 2022 Financial Results**

Most important to our member partners is the budget results, as the customer charges are set based upon our revenue requirements that must be fulfilled. The Schedule of Revenue Requirements Budget to Actual, in the Supplementary Information, provides an overall view of the financial results for FY 2022. In preparation of the budget, GLWA adheres to the following Financial Plan Objectives that are discussed in detail in our budget document:



- 1. The 4% Promise The 2014 MOU and lease agreements that established the regional authority demonstrated a commitment to affordability by codifying what is commonly referred to as the 4% Promise. This caveat established that the annual revenue requirement budget increases are limited to 4 percent for the first ten years of operations beginning with FY 2016;
- 2. Revenue Stability for the System This is achieved by utilizing a charge model to provide revenue stability despite changes in climate conditions that vary from year to year which also includes measures to foster water conservation;
- 3. Managing Charge Stability for Our Member Partners The goal is to adjust charges on a modest incremental basis systemwide to prevent unpredictable cost increases for our Member Partners;
- 4. Retail System Revenue and Collections Under the terms of the leases, Master Bond Ordinance ("MBO"), and the services agreement with DWSD, GLWA distributes receipts to the revenue requirements following a flow of funds that may result in a cashflow loan to DWSD. The goal is that the retail system collections exceed the financial commitments under the MBO:
- 5. WRAP This program is required to be funded at 0.5 percent of revenue;
- 6. Closed Loop Lease Payment The regional system lease payments stay within the local, retail water and sewage disposal systems for the benefit of the DWSD;
- 7. Closed Legacy Benefit Plan Costs GLWA's share of the required DWSD commitment as part of the City of Detroit's Chapter 9 bankruptcy Plan of Adjustment is funded consistent with the terms of the agreement.

The bottom-line revenue requirement budget result is that Water Operations ended the year with an \$8.2 million (2.4 percent) positive budget variance after meeting all of the revenue requirements. Similarly, the Sewage Disposal Operations ended the year with an \$8.5 million (1.8 percent) positive budget variance after meeting all of the revenue requirements.

A further discussion of FY 2022 results is presented in the MD&A. The MD&A provides further analysis of the water and sewer systems individually in addition to GLWA overall.

#### **Solid Foundation for Sustainability**

GLWA is committed to ensuring the long-term sustainability of the regional water supply and sewage disposal systems – we do this by recognizing that near-term actions have long-term impacts.

Stable Revenues with Modest Charge Adjustments - GLWA balances steady and controlled Operations and Management budget requests for the short-term, while continuing to focus on increasing cash reserves for capital investment and controlling long-term financial commitments. This provides stability in the cost of supply for our member partners (See Schedule 3 in the Statistical Section which provides the history of charge adjustments). The water and sewer regional system charge structure, developed collaboratively with member partners, supports a high degree of financial stability. The regional water supply system revenues are set using a methodology with a basis of 60 percent fixed monthly charge and 40 percent commodity consumption using a 36-months historical average usage. Proof of that stability gained is that actual wholesale customer revenue for 2022 was 100.5 percent of the amended budget. The regional sewage disposal system charge revenue methodology is



designed to recover 100 percent with a fixed monthly billing based on each member partner's share of the annual forecasted revenue requirement. The sewage disposal charges for FY 2022 used an updated core methodology to the SHARES calculation which embraces simplicity and replaces the strength of flow with an appropriate weighting on sanitary volumes. This simplified sewer charge methodology was developed by GLWA team members, advisors, and member partners.

Strong Bondholder Protections - All GLWA and DWSD customer payments are deposited to Bond Trustee Accounts and are disbursed in accordance the MBO flow of funds.

*Defined Contribution Benefit Plans* - All employee benefit plans are defined contribution which provide shorter term vesting and flexibility for the employee while creating zero risk on unfunded liabilities for GLWA.

#### **Awards**

Government Finance Officers Association Distinguished Budget Presentation Award – The Government Finance Officers Association of the United States and Canada ("GFOA") presented a Distinguished Budget Presentation Award to Great Lakes Water Authority, Michigan, for its Biennial Budget for the biennium beginning July 1, 2022. This was the Authority's fourth year receiving the award. To receive this award, a governmental unit must publish a budget document that meets program criteria as a policy document, as a financial plan, as an operations guide, and as a communications device.

Government Finance Officers Association Certificate of Achievement for Excellence in Financial Reporting - GFOA has awarded the Certificate of Achievement for Excellence in Financial Reporting to Great Lakes Water Authority for its annual comprehensive financial report for the fiscal year ended June 30, 2021, for the third year in a row. The report has been judged by an impartial panel to meet the high standards of the program, which includes demonstrating a constructive "spirit of full disclosure" to clearly communicate its financial story and motivate potential users and user groups to read the report. The Certificate of Achievement is the highest form of recognition, in the area of governmental accounting and financial reporting, and its attainment represents a significant accomplishment by a government and its management.

#### **COVID-19 Pandemic**

On March 11, 2020, the World Health Organization declared a pandemic following the outbreak of COVID-19, a respiratory disease caused by a novel strain of coronavirus. GLWA quickly responded activating its Emergency Operations Center to support its ability to provide water and wastewater services without disruption during the COVID-19 pandemic. GLWA's response to COVID-19 has continued to evolve through the course of the pandemic. GLWA has largely returned to normal operations but still maintains additional health procedures including social distancing and utilizing face coverings when appropriate under Centers for Disease Control and Prevention community threat level guidelines to support its team members and operations. On June 30, 2022, GLWA closed its COVID-19 Emergency Operations Center. GLWA remains in a threat preparedness posture and is prepared to address additional COVID-19 issues that may arise in the future.



#### Special Message from Suzanne R. Coffey, PE, Chief Executive Officer

In June 2022, I was honored to accept the Board's appointment to serve as the Chief Executive Officer ("CEO") for GLWA after serving as Interim CEO since August 2021 and the Chief Planning Officer ("CPO") since 2016. In this new role, I bring leadership experience and extensive knowledge of the regional system and its operations, as well as a strong commitment to customer service at all levels. My focus in this first year as CEO is building resiliency within our regional system, our relationships with our member partners, and our organization.

Resiliency Within Our Regional System - As it relates to building resiliency in our regional system, our commitment to asset management plays a significant role. So much has been accomplished over these last five years, including completing the Water Services Association Management Customer Value assessment to benchmark GLWA's Asset Management maturity, hosting a blue ribbon panel of experts from around the world as an information exchange to help guide our efforts, developing our Strategic Asset Management Plan and Asset Management policy and principles, conducting a broad cross section of trainings for our team members, and developing GLWA's Water and Wastewater Asset Management Plans.

Resiliency Within Our Member Partners - When it comes to resiliency with our member partners, there are several recent examples of how GLWA can support our region's communities and residents. First, working in partnership with EGLE, a webinar was conducted for member partners on the Drinking Water State Revolving Fund and the Clean Water State Revolving Fund loans programs to provide information and the current status of the identification of burdened community status for the deadlines that were fast approaching. Second, we have also been working to inform member partners and other stakeholders of important Board-approved changes to WRAP to increase participation and reach more eligible households across our service area, including the new IBP.

*Resiliency Within Our Organization* - Moving on to efforts we are undertaking to build resiliency in our organization. GLWA is filled with a very talented group of water professionals doing great things in and for our community. In October 2022, two GLWA team members – Jody Caldwell, P.E. and Jordie Kramer – were selected to fill key positions on the Executive Leadership Team.

Jody Caldwell, P.E., was selected to be the CPO. He has served as the Asset Management Director for more than five years and as Interim CPO since August 2021. In this role, he champions GLWA's efforts to bolster its asset management capacities, leads long-term planning efforts such as the five-year CIP, and is responsible for System Analytics and Meter Operations and Member Outreach. He is a licensed, professional engineer in the state of Michigan and holds a bachelor and master's degree in Civil Engineering from Michigan State University. Jody brings has more than 23-years of experience in many areas within the water and wastewater sector.

Jordie Kramer, was selected to be the Chief Organizational Development Officer ("CODO"). In this new role, she will be responsible for leading all areas of GLWA's Organizational Development Group, including recruitment, compensation, benefits, labor relations, employee relations, human resource information systems ("HRIS"), and training and development. Prior to being elevated to this executive-level position, Kramer served as Director of Organizational Development, a role she has been in since joining GLWA in 2019. Before beginning her tenure at GLWA, Jordie served as a Director of Human Resources, and served as Labor Relations Supervisor and Senior Compensation Analyst. She earned a Bachelor of Science Degree from Central Michigan University.



Our Professional Development Certification Program allows team members in 10 job classifications represented by a union through a Collective Bargaining Agreement and in the team leader classification to earn stipends for EGLE required certifications. The recently completed first year of the program resulted in 150 team members earning certifications from EGLE.

#### Acknowledgements

The positive financial results presented in the annual comprehensive financial report is the demonstration of the commitment that each GLWA team member has to accountability for the resources we are given. In addition, a special acknowledgement is in order for the members of the Financial Services Area – who consistently excel in delivering quality, transparent financial reporting all year in addition to this annual comprehensive financial report.

#### Collaboration is at the Core of a Successful Regional Water Authority

When we say "our" system, it is "our" system that we mutually support and foster in collaboration with our member partners, team members, vendor community, Board of Directors, other stakeholders, and the public at-large. Now, more than ever, thank you for your continued engagement.

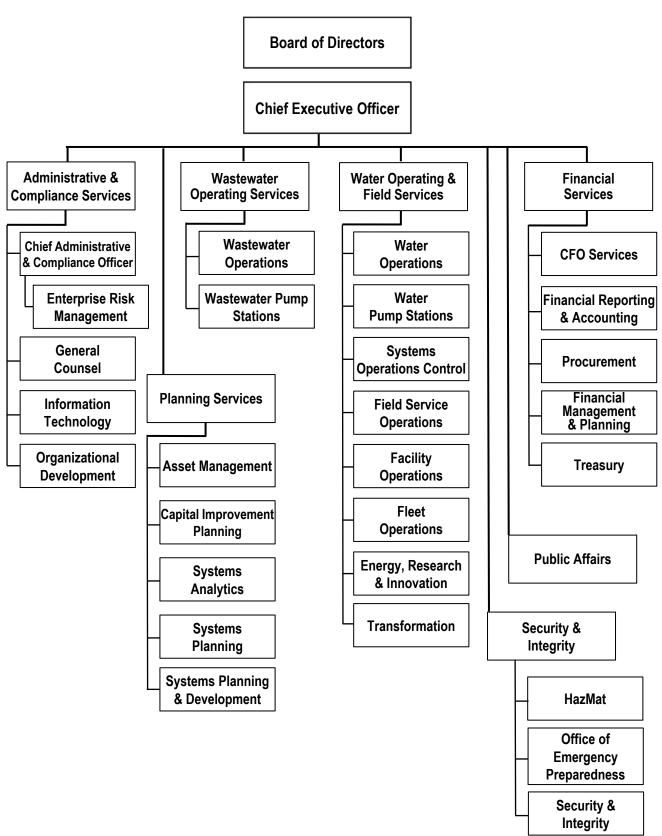
Suzanne R. Coffey, P.E. Chief Executive Officer

Nicolette N. Bateson, CPA Chief Financial Officer & Treasurer





### **Organizational Line of Reporting Chart**







### Great Lakes Water Authority Board of Directors as of June 30, 2022

Jaye Quadrozzi	GLWA Board Chairman; Representative for Oakland County
Freman Hendrix	GLWA Board Vice-Chair; GLWA Board Representative for the City of Detroit
Brian Baker	GLWA Board Secretary, GLWA Board Representative for Macomb County
Beverly Walker-Griffea, Ph.D	GLWA Board Representative for the State of Michigan
Gary A. Brown	GLWA Board Representative for the City of Detroit
John J. Zech	GLWA Board Representative for Wayne County

### Great Lakes Water Authority Executive Leadership Team as of June 30, 2022

Suzanne R. Coffey, P.E	Chief Executive Officer
William M. Wolfson	Chief Administrative and Compliance Officer
Nicolette N. Bateson, CPA	Chief Financial Officer/Treasurer - Financial Services
Cheryl D. Porter	Chief Operating Officer – Water Operating Services
Navid Mehram, P.E	Chief Operating Officer – Wastewater Operating Services
Jody Caldwell, P.E. *	
Jeffrey E. Small	
W. Barnett Jones	
Randal M. Brown	
Michelle A. Zdrodowski	Chief Public Affairs Officer

<sup>\*</sup> In October 2022, CEO Suzanne Coffey appointed Jody Caldwell as Chief Planning Officer and Jordie Kramer as Chief Organizational Development Officer.

#### **Mission Statement**

To exceed our member partners' expectations by utilizing best practices in the treatment and transmission of water and wastewater, while promoting healthy communities and economic growth.



Government Finance Officers Association

Certificate of Achievement for Excellence in Financial Reporting

Presented to

# Great Lakes Water Authority Michigan

For its Annual Comprehensive Financial Report For the Fiscal Year Ended

June 30, 2021

Christopher P. Morrill

Executive Director/CEO

#### **FINANCIAL SECTION**



#### **Independent Auditors' Report**

To the Board of Directors of Great Lakes Water Authority

#### **Report on the Audit of the Financial Statements**

#### **Opinions**

We have audited the accompanying financial statements of the business-type activities, and each major fund of the Great Lakes Water Authority (the Authority), as of and for the year ended June 30, 2022, and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements as listed in the table of contents.

In our opinion, the accompanying financial statements referred to above present fairly, in all material respects, the respective financial position of the business-type activities, and each major fund of the Authority as of June 30, 2022 and the respective changes in the financial position and cash flows thereof for the year then ended in accordance with accounting principles generally accepted in the United States of America.

#### **Basis for Opinions**

We conducted our audit in accordance with auditing standards generally accepted in the United States of America (GAAS) and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States (*Government Auditing Standards*) Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Authority and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

#### Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America; and for the design, implementation and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Authority's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.



#### **Auditors' Responsibilities for the Audit of the Financial Statements**

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinions. 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 and *Government Auditing Standards* will always detect a material misstatement when it exists. 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. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS and Government Auditing Standards, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to
  fraud or error, and design and perform audit procedures responsive to those risks. Such procedures
  include examining, on a test basis, evidence regarding the amounts and disclosures in the financial
  statements.
- 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 Authority's internal control. Accordingly, no such opinion is expressed.
- 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.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that
  raise substantial doubt about the Authority's ability to continue as a going concern for a reasonable
  period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings and certain internal control-related matters that we identified during the audit.

#### **Required Supplementary Information**

Accounting principles generally accepted in the United States of America require that the required supplementary information, as listed in the table of contents be presented to supplement the basic financial statements. Such information is the responsibility of management and, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do 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.



#### **Supplementary Information**

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the Authority's basic financial statements. The supplementary information as listed in the table of contents is presented for purposes of additional analysis and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the supplementary information is fairly stated in all material respects, in relation to the basic financial statements as a whole.

#### Other Information

Management is responsible for the other information, the introductory section and statistical section, of the annual comprehensive financial report (annual report). The other information comprises the other information included in the annual report but does not include the basic financial statements and our auditors' report thereon. Our opinions on the basic financial statements do not cover the other information, and we do not express an opinion or any form of assurance thereon.

In connection with our audit of the basic financial statements, our responsibility is to read the other information and consider whether a material inconsistency exists between the other information and the basic financial statements, or the other information otherwise appears to be materially misstated. If, based on the work performed, we conclude that an uncorrected material misstatement of the other information exists, we are required to describe it in our report.

#### **Report on Summarized Comparative Information**

We have previously audited the Authority's 2021 financial statements, and we expressed unmodified audit opinions on the respective financial statements of the business-type activities, and each major fund in our report dated December 8, 2021. In our opinion, the summarized comparative information presented herein as of and for the year ended June 30, 2021, is consistent, in all material respects, with the audited financial statements from which it has been derived.

#### Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated December 16, 2022 on our consideration of the Authority's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Authority's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Authority's internal control over financial reporting and compliance.

Madison, Wisconsin December 16, 2022

**MANAGEMENT'S DISCUSSION AND ANALYSIS** 



#### **Management's Discussion and Analysis**

#### June 30, 2022

The management of the Great Lakes Water Authority (GLWA or Authority) presents this discussion and analysis of GLWA's financial position and changes in financial position as of and for the fiscal year ended June 30, 2022. The Management's Discussion and Analysis (MD&A) should be read in conjunction with GLWA's basic financial statements and the related notes to the financial statements in addition to the transmittal letter provided in this report.

GLWA began operations on January 1, 2016. This discussion starts with the GLWA's accounting framework followed by an overview of the financial statements and then the financial analysis. Information in condensed format compares the fiscal year ended June 30, 2022 to the fiscal year ended June 30, 2021 for Total Business-Type activities for the Statement of Net Position. The condensed format of the Statement of Changes in Net Position is presented for the Total Business-Type activities. Financial analysis of this statement is explained by an analysis of the two major funds changes in net position. Comparison analysis is also provided for the fiscal year ended June 30, 2021 to the fiscal year ended June 30, 2020.

#### **Accounting Framework**

GLWA leases the regional system assets from the City of Detroit. In order to understand the GLWA's financial activity, it is helpful to revisit key financial reporting categories impacted by the accounting for the start-up of the Authority. The Regional System Leases which transferred the regional water system and sewage disposal system assets and operations to the GLWA are recorded based upon GASB 69, Government Combinations and Disposals of Government Operations. Accounting for the regional system leases under GASB 69 resulted in the following Statement of Net Position categories.

**Capital Assets:** Based on the terms of the transaction, and GASB 69 requirements, the assets subject to lease are recorded as capital assets by GLWA. The capital assets acquired were recorded at "acquisition value" based upon an inventory valuation performed by a certified appraisal firm as of January 1, 2016. This resulted in an overall increase in capital asset value from the predecessor entity's historical cost. Accordingly, the depreciable lives were reviewed and, in several cases shortened, which has increased annual depreciation expense.

**Bonded Indebtedness:** The outstanding bonded indebtedness of the predecessor entity (DWSD) was assumed in its entirety by GLWA. GASB 69 also required debt to be recorded at acquisition value.

**Net Pension Liability:** The net pension liability represents the Regional Systems' share of the frozen, defined benefit City of Detroit GRS pension assigned to DWSD in the City of Detroit's Chapter 9 Bankruptcy Plan of Adjustment. On January 24, 2017, the parties agreed that 70.3 percent of the liability was allocable to the GLWA regional operations and 29.7 percent to DWSD and is the basis of allocation for future pension contributions. That net pension liability is further subdivided between the Water Fund and the Sewage Disposal Fund for each entity.

**BC Note Obligation:** The BC Note obligation payable represents the Regional Systems' share of the B and C Note Obligations assigned to DWSD in the City of Detroit's Chapter 9 Bankruptcy Plan of Adjustment. The B and C Note Obligations refers to the debt service on the City of Detroit Financial Recovery Bonds dated December 10, 2014. Those bonds were issued to satisfy claims relating to the City's pension obligation certificates and postemployment healthcare benefits. GLWA's portion of the liability was estimated at 71.42 percent of the total DWSD liability.



#### **Management's Discussion and Analysis**

**Beginning Net Position:** The acquisition value of assets acquired exceeded the liabilities assumed by \$736.5 million in total with \$457.9 million attributable to the Water Fund and \$278.6 million attributable to the Sewage Disposal Fund. In accordance with GASB 69, the opening capital assets were adjusted by an amount to establish a total net position of zero as of January 1, 2016.

**Contractual Obligation Receivable:** This represents DWSD's allocable portion of the long-term bonded indebtedness assumed by GLWA on January 1, 2016 for local system capital improvements in previous years. This receivable is amortized annually in an agreed upon amount that approximates debt service. If new debt is issued on behalf of DWSD, the receivable is increased.

**Regional System Lease Payable:** The regional system lease payable is the net present value of the lease payment of \$50 million per year for 40 years payable to the DWSD with \$22.5 million paid to the DWSD local water system and \$27.5 million paid to the DWSD local sewer system based on a 4.17 percent borrowing rate for both systems.

Since GLWA assumed the outstanding bonded indebtedness, retail customer revenues are pledged for payment of outstanding bonded indebtedness assumed by GLWA. For this reason, pursuant to the terms of the Regional System Leases, DWSD is GLWA's agent for retail billing, collections, and enforcement.

#### **Overview of the Financial Statements**

This discussion and analysis is intended to serve as an introduction to the Authority's basic financial statements. The basic financial statements are comprised of the following:

The *statement of net position* presents information on the Authority's assets, deferred outflows of resources, liabilities, and deferred inflows of resources, with the residual reported as net position.

The statement of revenues, expenses and changes in net position presents information showing how the Authority's net position changed during the year. All changes in net position are reported as soon as the underlying event giving rise to the change occurs, regardless of the timing of related cash flows. Thus, revenues and expenses are reported for some items that will result in cash flows in future fiscal periods.

The *statement of cash flows* provides information about the Authority's cash receipts, cash payments and net changes in cash and cash equivalents resulting from operating, investing and capital and non-capital financing activities for the fiscal year.

The *notes to the financial statements* provide additional information that is essential to a full understanding of the data provided in the basic financial statements.

This report also contains other supplementary information in addition to the basic financial statements themselves. These schedules provide additional financial, budgetary, statistical, trend, and economic information that may be helpful to the readers of these financial statements.



#### **Management's Discussion and Analysis**

The Authority presents a combining statement for each fund in the supplementary financial information classified into three categories that align with the Authority's strategic and budgetary focus of managing capital investment for both the Regional Water System and Regional Sewage Disposal System: 1) operations (low capital investment), 2) improvement and extension (moderate capital investment and financial mechanism to lower borrowings and the related cost of capital over the long term), and 3) construction projects (high capital investment). The water and sewage disposal funds together comprise the activity of these three categories of the Authority in total. The separate water and sewage disposal funds are required by the MBO. A separate credit rating is established for each system and services provided to the member partner communities by each system are separate and distinct (although many may geographically overlap).

#### **Financial Analysis**

Summaries of the basic financial statements and related commentaries are presented below.

#### **Net Position (Deficit)**

Net position is defined by the 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. Deferred inflows and deferred outflows generally relate to financing activity and GLWA's share of the GRS pension obligation.



### **Management's Discussion and Analysis**

		Fiscal Year		Change 2022	vs 2021	Change 202	1 vs 2020
	2022	2021	2020	Amount	Percent	Amount	Percent
	,	,					
Assets							
Current assets	\$ 933,790	\$ 1,053,770	\$ 1,071,116	\$ (119,980)	-11.4%	\$ (17,346)	-1.6%
Restricted assets	45,956	43,929	87,325	2,026	4.6%	(43,396)	-49.7%
Capital assets	4,415,024	4,458,165	4,506,699	(43,141)	-1.0%	(48,533)	-1.1%
Other noncurrent							
assets	961,062	980,169	1,007,583	(19,107)	-1.9%	(27,414)	-2.7%
Total assets	6,355,832	6,536,034	6,672,723	(180,202)	-2.8%	(136,689)	-2.0%
D ( ) (() (							
Deferred outflows of resources	400 407	225 074	247.007	(40.577)	40.00/	7.077	2 70/
resources	182,497	225,074	217,097	(42,577)	-18.9%	7,977	3.7%
Liabilities							
Current liabilities	366,461	338,292	308,601	28,169	8.3%	29,691	9.6%
Long-term debt	5,295,565	5,469,009	5,627,391	(173,444)	-3.2%	(158,382)	-2.8%
•	65,221			,	-54.8%	11,395	8.6%
Net pension liability	•	144,305	132,910	(79,084)			
Other liabilities	910,224	923,254	932,619	(13,030)	-1.4%	(9,365)	-1.0%
Total liabilities	6,637,471	6,874,860	7,001,521	(237,388)	-3.5%	(126,661)	-1.8%
Deferred inflows of							
resources	120,157	96,380	109,876	23,776	24.7%	(13,496)	-12.3%
	120, 101	30,300	103,070	20,110	24.170	(10,430)	-12.070
Net position (Deficit)							
Net investment in							
capital assets	(194,715)	(302,012)	(351,219)	107,297	-35.5%	49,206	-14.0%
Restricted for debt	( - , - ,	(,-,	(, -)	, -		,	
service	123,415	114,545	105,283	8,870	7.7%	9,262	8.8%
Restricted for							
payment assistance							
program	12,318	11,043	8,988	1,275	11.5%	2,055	22.9%
Unrestricted	(160,317)	(33,707)	15,370	(126,609)	375.6%	(49,078)	-319.3%
Total net position (deficit)	\$ (219,299)	\$ (210,132)	\$ (221,578)	\$ (9,167)	4.4%	\$ 11,445	-5.2%

In total, GLWA ended June 30,2022 with a \$219.3 million net deficit. This represents the combined net deficit for the water fund of \$109.3 million and \$110 million for the sewage disposal fund. The net deficit as of June 30, 2021 was \$210.1 million. This is the combined net deficit of \$97.2 million for the water fund and \$112.9 million for the sewage disposal fund. The decrease in net position for the year ended June 30, 2022 of \$9.2 million was due to a \$2.8 million improvement in the sewer fund offset by a \$12 million decrease in the water fund. These amounts are reported in the Statement of Revenues, Expenses, and Changes in Net Position.



#### **Management's Discussion and Analysis**

There are three general components of a net position which could be a deficit: 1) net investment in capital assets (in its simplest form, capital assets acquired less debt incurred to acquire those assets); 2) restricted (non-capital assets whose use is restricted less the related liabilities); and 3) unrestricted (any portion of net position not already classified in the first two categories listed). The ending net position (deficit) is the prior year's ending balance plus or minus activity for the year.

Net investment in capital assets is the largest component of the net position with a deficit balance of \$194.7 million. The balance on June 30, 2021 was a deficit of \$302 million. The improvement for 2022 and 2021 was due to reductions in outstanding debt and increase in capital asset additions being larger than the depreciation expense with the reduction in outstanding debt being the biggest factor in this improvement. It should be noted that the deficit in the net investment in capital assets is representative of cumulative historical financial impacts carried forward from the predecessor entity. Those primarily related to terminated capital projects which have been subsequently addressed by other projects or approaches to address system needs.

Restricted Net Position for debt service represents amounts that are required by the related MBO or other third-party agreements to be used for the repayment of debt. The total amount restricted at June 20, 2022 was \$123.4 million. The amount at June 30, 2021 was \$114.5 million. Changes in this category can be related to a change in the debt reserve requirement or in the amount of funds being set aside. The MBO requires funds to be set aside monthly for debt service. The trustee provides the calculation of the monthly required debt service set aside amount so that the funds are available when the debt service payment is due. The increase in both 2022 and 2021 is due to an increase in the debt set aside payments based on future debt requirements. There was not much change in the debt reserve balances.

Restricted Net Position for payment assistance program represents WRAP funds that have not been spent, by the agencies who disburse the funds to those who meet the qualifications for assistance. For payment assistance, a client is in the program for two years. Monies are distributed to the agencies based on cashflow needs. As a result, funds are committed to clients but not disbursed until needed. The total amount restricted at year end was \$12.0 million. This is an increase of \$1.3 million from the prior year total of \$11.0 million. The community action agencies who manage the WRAP funding also received federal and state funding allocations to address client needs as a result of the COVID-19 pandemic. That allowed WRAP funding to be relied upon less, therefore making it available for subsequent years. In addition, many of the in-home service aspects of WRAP were on hold due to social distancing concerns because of the pandemic. We are currently in the process of modifying the WRAP program and expect these funds to be used at a higher rate in the coming years.

*Unrestricted net position* is generally defined as the net result of the other components of total net position. The unrestricted net position is a deficit of \$160.3 million as of June 30, 2022. The unrestricted net position has decreased for both 2022 and 2021 as a result of using the unrestricted cash and investments in the improvement and extension funds to pay for capital expenditures. The improvement and extension funds hold the revenues that are budgeted for in the revenue requirements to reduce debt financing for capital expenditures. This is part of the Authority's strategic goals to rebalance the mix of debt financing to reduce the cost of capital to become a solid AA category credit rating.



#### **Management's Discussion and Analysis**

#### **Changes in Net Position**

The following is a comparative summary of the business-type activities changes in net position for the last three years, followed by a detailed discussion of the significant changes by activity.

			Changes in Ne	let Postion (\$000)						
		Fiscal Year		Change 202	2 vs 2021	Change 202	1 vs 2020			
	2022	2021	2020	Amount	Percent	Amount	Percent			
Operating revenues	\$ 816,345	\$ 815,369	\$ 800,889	\$ 976	0.1%	\$ 14,479	1.8%			
Operating expenses	609,951	579,460	593,153	30,491	5.3%	(13,693)	-2.3%			
Operating income	206,394	235,909	207,736	(29,514)	-12.5%	28,173	13.6%			
Nonoperating revenues (expenses)	(222,552)	(230,424)	(234,449)	(7,871)	-3.4%	(4,025)	-1.7%			
Income (loss) before capital contributions	(16,158)	5,485	(26,713)	(21,643)	-394.6%	32,198	120.5%			
Capital contributions	6,991	5,960	5,960	1,031	17.3%		0.0%			
Change in net position	(9,167)	11,445	(20,753)	(20,612)	-180.1%	32,198	155.2%			
Net position (deficit), beginning of year	(210,132)	(221,578)	(200,825)	11,445	5.2%	(20,753)	-10.3%			
Net position (deficit), end of year	\$ (219,299)	\$ (210,132)	\$ (221,578)	\$ (9,167)	-4.4%	\$ 11,445	5.2%			

The change in net position of \$9.2 million is a decrease of \$20.6 million when compared to 2021. This decrease is mostly attributed to an increase in operating expenses of \$30.5 million offset by a decrease in nonoperating revenues of 7.9 million. Revenues were relatively stable from the previous year. The water fund had increased operating expense of \$14.1 million and the sewage disposal fund had increased operating expenses of 16.4 million. The nonoperating expenses decrease is a result of a decrease in the legacy pension expense of \$8.6 million, a decrease in interest expense of \$7.3 which were offset by a decrease in investment earnings of \$6.6 million and interest on obligations receivable of \$1.4 million. The decrease in investment earnings includes an increase in unrealized losses of \$3.4 million. These unrealized losses are not expected to be realized as the Authority holds most investments to maturity.



#### **Management's Discussion and Analysis**

#### **Water Fund**

				Water Fun	nd Ch	anges in N	Net Position (\$000)						
		Fisca	l Ye	ar			Ch	ange 202	2 vs 2021	Ch	nange 2021	vs 2020	
	2022	Percentage of Operating Revenue		2021	2	2020	An	nount	Percent	,	Amount	Percent	
Wholesale customer charges	\$ 323,026	93.6%	\$	322,424	\$	312,702	\$	602	0.2%	\$	9,722	3.1%	
Local system charges	21,697	6.3%		21,926		21,296		(228)	-1.0%		630	3.0%	
Other revenues	234	0.1%		266		256		(31)	-11.8%		10	3.7%	
Total operating revenues	344,958	100.0%		344,615		334,254		343	0.1%		10,362	3.1%	
Operating expenses	264,579	76.7%		250,476		263,283		14,102	5.6%		(12,806)	-4.9%	
Operating Income	80,379	23.3%		94,139		70,971		(13,759)	-14.6%		23,168	32.6%	
Nonoperating revenues (expenses)	 (92,380)	-26.8%		(94,995)		(90,499)		2,615	2.8%		(4,496)	-5.0%	
Change in net position	(12,000)	-3.5%		(856)		(19,528)		(11,144)	-1301.9%		18,672	95.6%	
Net position (deficit), beginning of year	 (97,266)			(96,410)		(76,882)		(856)			(19,528)		
Net position (deficit), end of year	\$ (109,266)		\$	(97,266)	\$	(96,410)	\$	(12,000)	-12.3%	\$	(856)	-0.9%	

Operating revenues are primarily from wholesale water charges of \$323 million (93.6 percent of Water Fund revenues). The 2022 wholesale customer charges were budgeted at \$321 million in the adopted budget which included a 1.9 percent increase in charges offset by a decrease in expected usage. The increase from 2021 to 2020 of 3.1 percent lines up with the budgeted wholesale charge adjustment increase of 3.1 percent even though the charge increase was deferred for 6 months. This resulted in approximately half of the increase related to the charge increase and the other half is related to an increase in volume usage that was partially offset with an increase in bad debt charges of \$1.7 million.

The revenue from the local system charges of \$21.7 million account for 6.3 percent of the total operating revenue. The decrease in 2022 local system charges from 2021 was expected based on the adopted budget and the calculation of charges. The increase in 2021 compared to 2020 is based on the budgeted increase of 3 percent which was an "across the board" increase that was used for determining charges in FY 2020. Pursuant to the terms of the WSSA with DWSD, a \$20.7 million credit is applied against allocated water revenue requirements in the charge methodology. This credit replaces a previous ownership benefit that was in place prior to the Effective Date of the Regional System Lease.



#### **Management's Discussion and Analysis**

Revenue and charge stability are important goals for GLWA and its member partners. Established via an engaged, collaborative process, the water charge structure is based on the following.

- 1. 40% is based on the average annual usage for each customer based on their 36 prior months of usage ending September 30th each year
- 2. 60% is based on fixed monthly charges

Fiscal year 2022 revenue billed was 100.5 percent of the amended budget meeting the goal of revenue stability and was net of the Karegnondi Water Authority (KWA) credit. Fiscal year 2021 revenue billed was 99.6 percent of the amended budget and was net of the KWA credit.

Operating income after operating expenses (including depreciation and amortization) equals \$80.4 million or 23.3 percent of operating revenue. Operating expenses are detailed below.

	Water Fund Operating Expenses (\$000)												
			Fisca	l Ye	ar			С	hange 202	2 vs 2021	Cha	nge 2021	vs 2020
		2022	Percentage of Operating Expense		2021		2020	A	mount	Percent	A	mount	Percent
					<u>'</u>						!		
Personnel	\$	44,893	17.0%	\$	43,889	\$	43,946	\$	1,003	2.3%	\$	(57)	-0.1%
Contractual services		50,684	19.2%		40,411		46,097		10,273	25.4%		(5,687)	-12.3%
Utilities		28,725	10.9%		28,828		27,720		(103)	-0.4%		1,108	4.0%
Chemicals		7,789	2.9%		6,028		5,569		1,761	29.2%		459	8.2%
Supplies and other		9,157	3.5%		9,159		12,034		(2)	0.0%		(2,875)	-23.9%
Capital adjustment		-	0.0%		-		27		-	0.0%		(27)	-100.0%
Capital program allocation		(1,618)	-0.6%		(2,123)		(2,164)		505	23.8%		41	1.9%
Intergovernmental reimbursements		(1,814)	-0.7%		(2,555)		(697)		741	29.0%		(1,858)	-266.5%
Total operating expenses before depreciation and amortization		137,816	52.1%		123,638		132,533		14,178	11.5%		(0 00E)	-6.7%
		137,010	52.1%		123,036		132,533		14,176	11.5%		(8,895)	-0.7%
Depreciation and amortization		126,763	47.9%		126,838		130,750		(76)	-0.1%		(3,912)	-3.0%
Total Operating Expenses	\$	264,579	100.0%	\$	250,476	\$	263,283	\$	14,102	5.6%		(12,806)	-4.9%



#### **Management's Discussion and Analysis**

Operating expenses of \$264.6 million represent 76.7 percent of total operating revenue which consists primarily of depreciation and amortization expense and operations and maintenance activities. Depreciation and amortization are the larger category of expense at \$126.8 million or 47.9 percent of operating expense. Given the nature of GLWA's water operations, it is expected that personnel, contractual services, and utilities would represent the higher dollar amount.

Personnel cost variance is mostly due to the change in personnel allocations from both Centralized and Administrative charges. See the Centralized Services and Administrative Services section for a discussion of these variances. This discussion follows the Sewage Disposal Fund discussions.

Contractual services include field services contracts for timely repairs to minimize disruption in service, technology related services for both operational and enterprise data networks, and outsourcing of janitorial, fleet, and other functions. The increase in contractual services of \$10.3 million from 2022 to 2021 is a result of variances throughout various cost centers. The major variances are detailed below:

- Decrease of \$1.2 million in the Field Engineering cost center as a result of a reclass of construction activity for contaminated materials that could not be capitalized. These projects were for the betterment of the system and therefore paid with I&E funds.
- Decrease of \$1.2 million in the amount recorded to water I&E for the development of the AECOM Project Management Information System (PMIS) (\$1.2 million of this project recorded to sewer I&E in FY 2022).
- Increase of \$3.3 million for increased sludge removal activity at Northeast Water Plant (\$1.8 million), Southwest Water Plant (\$1.3 million), and Springwells Water Plant (\$0.2 million).
- Increase of \$0.5 million recognized in Fleet Operations due to a \$1.0 credit for the true-up of shared services which was posted in FY 2021, half of which was charged to water.
- Increase of \$3.6 million in the Hydromax and Ric-Man Water Transmission Main Contracts for Field Services in FY 2022.
- Increase of \$1.7 million due to the net change in year-end adjustment to the legal accrual (\$1.5 million) and an increase of legal services during FY 2022 (\$0.2 million).
- Increase of \$1.4 million related to the AT&T credit which was received in FY 2021 for overcharges on telecom services that were not billed at the contract rate.
- Increase of \$0.7 million for the increase in business insurance premiums.
- Increase of \$1.5 million in Asset Management for the Linear System Integrity Program (LSIP) which began in FY 2022.

The decrease in contractual services of \$5.7 million from 2021 to 2020 is a result of variances throughout various cost centers. The major variances are detailed below:

- Increase of \$1.2 million in the Field Engineering cost center as a result of a reclass of construction activity for contaminated materials that could not be capitalized. These projects were for the betterment of the system and therefore paid with I&E funds.
- Decrease of \$1.9 million at the Southwest water plant for reduced activity of sludge removal.
- Decrease of \$3.4 million for year-end adjustment to the legal accrual (\$2.0 million) and a decrease of legal services during the fiscal year (\$1.4 million).
- Decrease of \$3.1 million related to a credit received from AT&T for overcharges on telecom services that were not billed at the contract rate.
- Increase of \$1.5 million for transfer of low voltage wiring contract from Information Technology (Administrative Services).



#### Management's Discussion and Analysis

The increase in chemicals from 2022 to 2021 of \$1.8 million is due to the increase in prices of chemicals.

The decrease in the supplies and other expenses from 2021 to 2020 of \$2.9 million is due to a decrease in the utilization of the low voltage wiring contract.

Intergovernmental reimbursements will vary year to year based on the amount of activity and any true-ups recorded. The decrease in reimbursements from 2022 to 2021 is mostly related to a decrease in activity. The increase in reimbursements from 2021 to 2020 is mostly related to the amount of true-ups recorded in those years.

The following table details the Water Fund nonoperating revenue and expenses:

			Water Fund No	noperating Rev	venue (Expenses) (\$000)					
		Fiscal	l Year		Change 202	2 vs 2021	Change 2021	vs 2020		
		Percentage of Operating								
	2022	Expense	2021	2020	Amount	Percent	Amount	Percent		
Earnings (loss) on investments	\$ (2,361)	2.6%	\$ 769	\$ 13,745	\$ (3,130)	-407.1%	\$ (12,976)	-94.4%		
Interest on obligations receivable	25,107	-27.2%	25,475	22,946	(368)	-1.4%	2,529	11.0%		
Interest expense	(125,086)	135.4%	(128,257)	(133,538)	3,171	-2.5%	5,280	-4.0%		
Legacy pension income (expense) Other	(4,988) 14,949	5.4% -16.2%	(8,075) 15,094	(7,221) 13,569	3,087 (145)	-38.2% -1.0%	(855) 1,525	11.8% 11.2%		
	14,545	-10.270	10,004	10,000	(143)	-1.070	1,020	11.270		
Total Nonoperating Revenue (Expenses)	(92,380)	100.0%	(94,995)	(90,499)	2,615	-2.8%	(4,496)	5.0%		

Net nonoperating expense of \$92 million is primarily related to interest expense of \$125 million. The interest expense from debt service is \$103.6 million with the remainder related to the Regional Water System Lease, obligation payable and raw water rights obligation. The largest offset to the nonoperating expense is interest revenue on the obligations receivable of \$25.1 million, which is related to the terms of the Regional Water System Lease.

As a result of the short-term nature of the GLWA portfolio, it is heavily impacted by changes in the Fed Funds interest rate. Earnings started to drop in 2020 as the Federal Reserve cut the Fed Funds interest rate to 0 percent in March 2020. Although the Federal Reserve started increasing the Fed Funds interest rate in March 2022, the maturity timing of the investments did not allow the Authority to benefit from the increased rates in 2022. The increase in the rates did have a negative impact of the valuation of the investments for 2022 resulting in an increase in unrealized losses for 2022. These losses most likely will not be realized as the Authority holds most investments until maturity.

The decrease in interest expense in 2022 and 2021 is a result of a reduction in long term debt as well as the savings being realized from bond refunding transactions in 2016, 2018 and 2020.

The legacy pension expense decrease in 2022 is mainly related to an increase in investment earnings on the plan assets to offset the expenses. The legacy pension expense increase in 2021 is mainly related to a decrease in investment earnings on the plan assets to offset the expenses.



#### **Management's Discussion and Analysis**

#### **Sewage Disposal Fund**

		S	ewage Disposa	I Fund Changes	nges in Net Position (\$000)					
		Fisca	l Year		Change 202	2 vs 2021	Change 202	1 vs 2020		
	2022	Percentage of Operating Revenue	2021	2020	Amount	Percent	Amount	Percent		
		•		•						
Wholesale customer charges	\$ 268,813	57.0%	\$ 267,568	\$ 266,003	\$ 1,246	0.5%	\$ 1,565	0.6%		
Local system charges	188,662	40.0%	187,960	185,807	703	0.4%	2,152	1.2%		
Industrial waste charges	8,300	1.8%	8,005	7,855	295	3.7%	150	1.9%		
Pollutant surcharges	5,182	1.1%	6,720	6,449	(1,538)	-22.9%	271	4.2%		
Other revenues	429	0.1%	501	522	(72)	-14.3%	(21)	-4.0%		
Total operating revenues	471,387	100.0%	470,754	466,636	634	0.1%	4,118	0.9%		
Operating expenses	345,372	73.3%	328,983	329,870	16,389	5.0%	(887)	-0.3%		
Operating Income	126,015	26.7%	141,770	136,765	(15,755)	-11.1%	5,005	3.7%		
Nonoperating revenues (expenses)	(130,173)	-27.6%	(135,429)	(143,950)	5,256	-3.9%	8,521	-5.9%		
Income (loss) before capital contributions	(4,158)	-0.9%	6,341	(7,185)	(10,499)	-165.6%	13,526	-188.3%		
•	, ,		•	( , ,	( , ,		13,320			
Capital contributions	6,991	1.5%	5,960	5,960	1,031	17.3%		0.0%		
Change in net position	2,833	0.6%	12,301	(1,225)	(9,468)	-77.0%	13,526	-1104.2%		
Net position (deficit), beginning of year	(112,867)	<u> </u>	(125,168)	(123,943)	12,301	-9.8%	(1,225)	1.0%		
Net position (deficit), end of year	\$ (110,033)	) =	\$ (112,867)	\$ (125,168)	\$ 2,833	-2.5%	\$ 12,301	-9.8%		

Operating revenues are primarily from wholesale sewer charges of \$268.8 million (57.0 percent of Sewage Disposal Fund revenues). Revenues were budgeted at \$272.1 million for 2022 with no expected increase in the allowance for bad debts. Actual revenues were \$272.4 with bad debt expense of \$3.6 million. The increase in 2021 is related to the charge increase of 1.7 percent for wholesale customers that was delayed six months resulting an increase of 0.85 percent. There was also an increase in bad debt charges of approximately \$265,000.

The revenue from local system charges of \$188.7 million account for 40 percent of total operating revenues. The increase in 2022 local system charges from 2021 was expected based on the adopted budget and the calculation of charges. The variances in the local system charges for 2021 line up with half of the budgeted increases of 2.3 percent for 2021 as the charges were delayed six months due to the pandemic. Pursuant to the terms of the WSSA with DWSD, a \$5.516 million credit is applied against sewer charges in the charge methodology. This credit replaces a previous contractual arrangement that was in place prior to the Effective Date of the Regional System.



#### **Management's Discussion and Analysis**

Industrial waste charges and pollutant surcharges represent 2.9 percent of operating revenue which are charged to non-residential users.

Wholesale contract charges are based on a "share" percentage of the annual revenue requirement billed one-twelfth each month. The shares are established based upon historical flows and are formally revisited every three years. The result is no revenue shortfall or overestimation.

Operating income after operating expenses (including depreciation and amortization) equals \$126 million or 26.7 percent of operating revenue. Operating expenses are detailed below.

	Sewage Disposal Fund Operating Expenses (\$000)												
			Fisca	l Ye	ar			Cha	ange 202	2 vs 2021	Ch	ange 202	1 vs 2020
		2022	Percentage of Operating Expense		2021		2020	An	nount	Percent	A	Amount	Percent
Personnel	\$	62,161	18.0%	\$	63,056	\$	60,320	\$	(895)	-1.4%	\$	2,735	4.5%
Contractual services		63,410	18.4%		62,913		63,351		497	0.8%		(438)	-0.7%
Utilities		30,930	9.0%		23,921		23,433		7,009	29.3%		488	2.1%
Chemicals		12,593	3.6%		7,954		8,672		4,639	58.3%		(718)	-8.3%
Supplies and other		19,912	5.8%		21,938		23,393		(2,026)	-9.2%		(1,455)	-6.2%
Capital program allocation		(1,014)	-0.3%		(1,069)		(1,183)		55	-5.2%		115	-9.7%
Intergovernmental reimbursements		(1,074)	-0.3%		(612)		(1,037)	-	(462)	75.5%		425	-41.0%
Total operating expenses before depreciation and amortization		186,919	54.1%		178,101		176,949		8,817	5.0%		1,152	0.7%
Depreciation and amortization		158,453	45.9%		150,882		152,921		7,571	5.0%		(2,039)	-1.3%
Total Operating Expenses	\$	345,372	100.0%	\$	328,983	\$	329,870	\$	16,389	5.0%	\$	(887)	-0.3%

Operating expenses of \$345.4 million represent 73.3 percent of total operating revenue which consists primarily of depreciation and amortization expense and operations and maintenance activities. Depreciation and amortization are the larger category of expense at \$158.5 million or 45.9 percent of operating expense. Given the nature of GLWA's wastewater operations, it is expected that personnel, contractual services, and utilities would represent the higher dollar amount.

Personnel cost decreases in 2022 and personnel cost increases in 2021 are mainly due to the amounts charged in the allocation from both Centralized and Administrative charges. See the Centralized Services and Administrative Services section for a discussion of these variances. This discussion follows the Sewage Disposal Fund discussions.



### **Management's Discussion and Analysis**

Contractual services include operation and management of the Biosolids Dryer Facility (BDF), timely repairs for the Water Resources Recovery Facility (WRRF), staff augmentation for operations, technology related services for both operational and enterprise data networks, and outsourcing of janitorial, fleet, and other functions. Contractual services decreased \$.5 million in 2022 which is mainly due to the following:

- Increase of \$1.2 million for the development of the AECOM Project Management Information System (PMIS).
- Increase of \$1.0 million for the use of the New England Fertilizer Co. (NEFCO) contract along with the cost for the material processed through the Biosolids Dryer Facility (BDF) which is based on the increasing consumer price index (CPI).
- Decrease of \$1.7 million in the year-end claims & judgements accrual.

Contractual services decreased \$.4 million in 2021 which is mainly due to the following:

- Decrease of \$2.0 million due to various contract reductions in the following cost centers:
   Wastewater Operations, Wastewater Primary Process, Wastewater Secondary Process,
   Combined Sewer Overflow.
- Increase of \$1.7 million in the year-end claims & judgements accrual.

Utilities increased \$7 million in 2022 due to the following.

- Water Increase of \$1.7 million due to the repair and replacement of existing meters at the Water Resource Recovery Facility (WRRF). Water bills are now being produced with actual readings which are higher than prior years billings.
- Gas Increase of \$2.5 million due to the cost of natural gas MMBTU which has increased significantly over the past two years. In addition, the Biosolids Dryer Facility (BDF) and wastewater incineration has had an increase in production which has led to an increase in natural gas usage.
- Electric Increase of \$2.6 million is the result of DTE changing from a nuclear surcharge recovery
  to a volumetric delivery surcharge. This change has resulted in an increase to the charge for kWh.
  In addition, the on-demand rate for electricity significantly increased in FY 2022 due to the wet
  weather events which resulted in increased usage.
- Sewage Increase of \$0.2 million is due to the increase in the cost per acre related to drainage charges at various wastewater facilities.

The increase in chemicals from 2022 to 2021 of \$4.6 million is due to the increase in prices of chemicals as well as the increase in wet weather events which resulted in a need for increase chemical usage.

The supplies and other expenses decreased of \$2 million in 2022 mainly due to the decrease in the number of inspections and amount of permit fees.

The supplies and other expenses decreased of \$1.5 million in 2021 mainly due to the following:

- Increase of \$0.9 million due to increase in repair work at the following cost centers: Wastewater Primary Process and Wastewater Incineration Process.
- Decrease of \$2.5 million in allocated supplies and other centralized services. See the Centralized Services and Administrative Service section for a discussion of these variances. This discussion follows the Sewage Disposal Funds discussions.



#### **Management's Discussion and Analysis**

The following table details the Sewage Disposal Fund nonoperating revenue and expenses:

		Sewag	e Disposal Fun	d Nonoperating	iting Revenue (Expenses) (\$000)					
		Fiscal	Year		Change 202	22 vs 2021	Change 202	1 vs 2020		
	2022	Percentage of Operating Expense	2021	2020	Amount	Percent	Amount	Percent		
				2020	5 6114	. c. oork		. 5. 5011		
Earnings (loss) on investments	\$ (3,023)	2.3%	\$ 491	\$ 11,672	\$ (3,514)	-716.0%	\$ (11,181)	-95.8%		
Interest on loan and obligations receivable	17,158	-13.2%	18,248	19,489	(1,090)	-6.0%	(1,241)	-6.4%		
Interest expense	(131,110)	100.7%	(135,228)	(155,410)	4,118	-3.0%	20,183	-13.0%		
Legacy pension income (expense) Other	(8,927) (4,270)		(14,453) (4,487)	(12,923) (6,778)	5,525 217	-38.2% -4.8%	(1,530) 2,291	11.8% -33.8%		
Total Nonoperating Revenue (Expenses)	(130,173)	100.0%	(135,429)	(143,950)	5,256	-3.9%	8,521	-5.9%		

Net nonoperating expense of \$130.2 million is primarily related to \$131.1 million of interest expense. Interest expense from debt service is \$108.6 million with the remainder related to the Regional Sewage Disposal Lease, obligation payable and lease for the right to use asset. The largest offset to the expense is interest revenue of \$17.2 million on the shortfall and obligations receivable, which is related to the terms of the Regional Sewage Disposal Lease.

As a result of the short-term nature of the GLWA portfolio, it is heavily impacted by changes in the Fed Funds interest rate. Earnings started to drop in 2020 as the Federal Reserve cut the Fed Funds interest rate to 0 percent in March 2020. Although the Federal Reserve started increasing the Fed Funds interest rate in March 2022, the maturity timing of the investments did not allow the Authority to benefit from the increased rates in 2022. The increase in the rates did have a negative impact of the valuation of the investments for 2022 resulting in an increase in unrealized losses for 2022. These losses most likely will not be realized as the Authority holds most investments until maturity.

Interest earnings on the shortfall and obligation receivable have decreased for 2022 and 2021 as the balances are being paid down.

The decrease in interest expense in 2022 and 2021 is a result of a reduction in long term debt as well as the savings being realized from bond refunding transactions in 2016, 2018 and 2020.

The legacy pension expense decrease in 2022 is mainly related to an increase in investment earnings on the plan assets to offset the expenses. The legacy pension expense increase in 2021 is mainly related to a decrease in investment earnings on the plan assets to offset the expenses.



#### **Management's Discussion and Analysis**

#### Centralized Services and Administrative Services

The following table summarizes the activity for centralized services and administrative services.

				Centralized and Administrative Services (\$000)								
					Change 20	22 vs 2021			Change 20	21 vs 2020		
		Fiscal Year	-			Variance	Allocation			Variance	Allocation	
	2022	2021	2020	Amount	Percent	Water	Sewer	Amount	Percent	Water	Sewer	
Centralized Servi	ces											
Personnel	\$31,777	\$30,318	\$ 28,798	1,459	4.8%	\$ 2,307	\$ (847)	1,520	5.3%	\$ (766)	\$ 2,286	
Contractual												
services	50,777	48,802	59,999	1,975	4.0%	7,946	(5,971)	(11,197)	-18.7%	(8,228)	(2,969)	
Utilities	141	136	66	5	3.7%	3	2	70	106.1%	36	34	
Supplies and												
other expenses	9,027	8,873	13,836	154	1.7%	0	153	(4,963)	-35.9%	(2,484)	(2,479)	
Total Centralized Services	\$91,722	\$88,129	\$102,699	\$ 3,593	4.1%	\$10,256	\$ (6,663)	\$ (14,570)	-14.2%	\$ (11,442)	\$ (3,128)	
Administrative Se	rvices											
Personnel	\$16,938	\$17,823	\$ 17,629	\$ (885)	-5.0%	\$ (443)	\$ (443)	\$ 194	1.1%	\$ 97	\$ 97	
Contractual												
services	14,950	6,524	10,126	8,426	129.2%	2,383	6,043	(3,602)	-35.6%	(1,801)	(1,801)	
Utilities	160	24	28	136	566.7%	68	68	(4)	-14.3%	(2)	(2)	
Supplies and other expenses	1,344	846	1,173	498	58.9%	79	419	(327)	-27.9%	(223)	(104)	
Total Administrative Services	\$33,392	\$25,217	\$ 28,956	\$ 8,175	32.4%	\$ 2,088	\$ 6,087	\$ (3,739)	-12.9%	\$ (1,929)	\$ (1,810)	

Centralized services personnel costs increased \$1.5 million in 2022. Part of this increase was a result of moving the Transformation department to a centralized service classification from the administrative services classification (increase of \$0.6 million to centralized services). The balance of the increase in centralized services is due to increases in personnel costs of \$0.9 million in Security, Systems Operations Control, and Field Services primarily due to overtime. Centralized services personnel costs increased \$1.5 million in 2021. This increase is mostly driven by the change in staffing in 2020, which occurred throughout 2020, with more increases in the latter half of 2020, therefore a full year increase in 2021 and a partial year increase in 2020. Administrative personnel costs decreased \$0.9 million in 2022. This decrease was a result of moving the transformation department from the administrative services classification to the centralized services classification (decrease of \$0.6 million to administrative services). The remainder of the decrease is due to the closing of the Data Analytics department (\$0.2 million), team members in other departments within Financial Services assumed the responsibilities previously performed in Data Analytics, and a reduction in overtime hours (\$0.1 million).



#### **Management's Discussion and Analysis**

Centralized contractual services increased 2 million in 2022 due to the following:

- Decrease of \$0.8 million related to COVID-19 deep cleaning at various GLWA facilities.
- Increase of \$0.2 million in elevator maintenance at various GLWA facilities.
- Increase of \$1.0 million recognized in Fleet Operations due to a \$1.0 credit for the true-up of shared services which was posted in FY 2021.
- Decrease of \$2.1 million related to change in use of various Field Services contracts in FY 2022 (usage of these contracts varies from year-to-year) Hydromax (increase \$1.2 million), Ric-Man Water Transmission Main (increase \$2.2 million), Inland Waters Pollution Control (decrease \$5.0), and Lakeshore Global professional services (decrease \$0.5 million).
- Increase of \$1.0 million related to the wet weather events for Field Services to remove the storm borne solids from three Outfall sites (\$0.5 million), CCTV footage taken of the east side sewer system (\$1.0 million), and a credit of \$0.5 million from insurance proceeds.
- Increase of \$2.7 million related to the AT&T credit which was received in FY 2021 for overcharges on telecom services that were not billed at the contract rate.
- Increase of \$1.5 million in Asset Management for the Linear System Integrity Program (LSIP) which began in FY 2022.
- Decrease of \$1.5 million in Capital Improvement Planning with the operations & maintenance work wrapping up for AECOM in FY 2021 and shifting to Capital.

Centralized contractual services decreased \$11.2 million in 2021. The major variances which total \$10.7 million are detailed below:

- Decrease of \$1.6 million related to COVID-19 deep cleaning performed at various GLWA facilities.
- Decrease of \$1.6 million in Fleet Operations for the cancellation of the fleet management shared services agreement (OPS-001) with DWSD. GLWA assumed the fleet management responsibility beginning July 2020 (FY 2021),
- Decrease of \$3.1 million related to a credit received from AT&T for overcharges on telecom services that were not billed at the contract rate.
- Decrease of \$1.4 million in Systems Planning upon completion of the Wastewater Master Plan in FY 2020.
- Decrease of \$3.0 million in Capital Improvement Planning with the operations & maintenance work wrapping up AECOM Contract (CS-272). The work is now shifting to Capital.

Administrative contractual services increased \$8.4 million in 2022. The major variances which total \$8.2 million are detailed below.

- Increase of \$1.3 million related to the GLWA Board requested independent investigations for the wet weather events.
- Increase of \$5.5 million due to the change in the legal claims and adjustment accrual from FY 2021 to FY 2022 of \$2.9 million, claims process and other legal services related to the wet weather events of \$2.2 million, and increase of non-wet weather event legal services during the fiscal year of \$0.4 million.
- Increase of \$1.4 million for the increase in business insurance premiums.

Administrative contractual services decreased \$3.6 million in 2021. The majority of this decrease was due to a decrease of the claims and adjustment accrual of \$2.1 million and a decrease of legal services during the fiscal year of \$1.4 million.



### **Management's Discussion and Analysis**

#### **Capital Assets and Debt Administration**

GLWA's investment in capital assets is \$4.4 billion (net of accumulated depreciation) with \$1.9 billion assigned to the Water Fund and \$2.5 billion assigned to the Sewage Disposal Fund. The investment in capital assets includes land, buildings, plants, transmission lines, vehicles, machinery and equipment, raw water rights, right to use assets and prepaid subscription assets. Total net capital assets decreased in 2022 and 2021. The net decrease is primarily attributable to depreciation in excess of current year additions for both years. See Note 10 to the financial statements for more information on capital assets. The Authority implemented GASB 89 during FY 2018 and no longer capitalizes interest expense.

	Capital Assets, Net (\$000)											
			Fis	scal Year			Ch	ange 2022	vs 2021	Ch	ange 2021	vs 2020
		2022		2021		2020	Α	mount	Percent	/	Amount	Percent
Land	\$	63,302	\$	62,311	\$	61,801	\$	991	1.6%	\$	509	0.8%
Easements		357,448		355,202		354,844		2,247	0.6%		358	0.1%
Construction in progress		466,055		395,973		303,220		70,081	17.7%		92,753	30.6%
Site improvements		49,413		58,815		69,475		(9,403)	-16.0%		(10,660)	-15.3%
Buildings and structures		1,285,452		1,322,619		1,378,065		(37,168)	-2.8%		(55,446)	-4.0%
Infrastructure		956,329		1,002,945		1,040,603		(46,617)	-4.6%		(37,658)	-3.6%
Machinery and equipment		1,123,750		1,144,125		1,186,649		(20,375)	-1.8%		(42,524)	-3.6%
Vehicles		7,198		7,077		3,477		121	1.7%		3,600	103.5%
Leasehold improvements		10,297		10,444		10,777		(148)	-1.4%		(333)	-3.1%
Intangible assets		95,782		98,653		97,786		(2,871)	-2.9%		867	0.9%
Total capital assets (net of depreciation and	_		_			4.500.000		(40.444)			(40.500)	
amortization)	\$	4,415,024	\$ -	4,458,165	\$ -	4,506,699	\$	(43,141)	-1.0%	\$	(48,533)	-1.1%



### **Management's Discussion and Analysis**

#### Water Fund

There are ten major categories used for classification of capital assets for financial reporting purposes.

		W	ater Fund Capita	oital Assets, Net (\$000)					
		Fiscal Year		Change 2022 vs 20	21 Change 2021	vs 2020			
	2022	2022 2021		Amount Perc	ent Amount	Percent			
Land	\$ 34,907	\$ 34,168	\$ 34,167	\$ 739 2.2	% \$ 1	0.0%			
Easements	259,139	258,990	258,632	149 0.1	% 358	0.1%			
Construction in progress	272,954	204,853	126,198	68,101 33.2	% 78,656	62.3%			
Site improvements	29,415	36,449	43,752	(7,033) -19.3	% (7,303)	-16.7%			
Buildings and structures	409,923	420,686	438,686	(10,763) -2.6	% (18,000)	-4.1%			
Infrastructure	419,969	458,734	483,428	(38,765) -8.5	% (24,694)	-5.1%			
Machinery and equipment	424,120	397,660	414,684	26,460 6.7	% (17,024)	-4.1%			
Vehicles	2,992	3,230	1,582	(238) -7.4	% 1,648	104.1%			
Leasehold improvements	7,240	7,796	7,998	(556) -7.1	% (202)	-2.5%			
Intangible assets	91,067	94,219	97,786	(3,153) -3.3	% (3,567)	-3.6%			
Total water fund capital assets (net of depreciation and		4	<b>.</b>			0.704			
amortization)	\$ 1,951,726	\$ 1,916,784	\$ 1,906,912	<u>\$ 34,942</u> 1.8	% <u>\$ 9,872</u>	0.5%			

Water Fund additions in 2022 and 2021 were mainly due to transfers out of construction in progress to the applicable asset category. Total additions in FY 2022 to construction in progress was \$158.7 million and transfers out of \$90.6 million. The total additions in FY 2021 to the construction in progress were \$129.8 million with \$51.2 million transferred to capital assets. The table below summarizes major projects for the last two years. Comprehensive project plan details can be found within Capital Improvement Plan documents available at <a href="https://www.glwater.org/cip/">https://www.glwater.org/cip/</a>.



# **Management's Discussion and Analysis**

		Water	Fund (mill	ions)				
		Expected	Project	Exper	nditures	Placed i	n Service	
Project Number	Description	Completion Date	Plan Estimate	FY 2021	FY 2022	FY 2021	FY 2022	CIP at 6/30/2022
116002	Pennsylvania, Springwells and Northeast Raw Water Supply Tunnel Improvements	FY 2026	\$ 99.0	\$ 12.1	\$ 25.5	\$ 4.7	\$ -	\$ 51.4
122013	14 Mile Transmission Main Loop	FY 2025	111.4	6.7	18.2	0.4	_	28.2
132010	West Service Center Pumping Station - Reservoir, Reservoir Pumping, and Division Valve Upgrades	FY 2024	45.6	6.6	19.1	_	_	28.2
114011	Springwells Water Treatment Plant Steam, Condensate Return, and Compressed Air Piping Improvements	FY 2023	25.9	8.4	5.5	_		23.9
114002	Springwells Water Treatment Plant, Low-Lift and High-Lift Pumping Station Improvements	FY 2032	281.9	7.4	9.5	_		22.5
122004	96" Main Relocation, Isolation Valve Ins	FY 2023	15.1	7.9	6.5	_		16.1
122003	Water Works Park to Northeast Transmission Main	FY 2028	147.8	16.1	13.6	-	29.8	5.2
122005	Schoolcraft Road Water Transmission Main	FY 2022	15.0	4.9	8.0	-	13.7	0.6
122006	Wick Road Water Transmission Main	FY 2022	25.7	11.2	5.4	_	20.8	1.8
111002	Lake Huron Water Treatment Plant, Miscellaneous Mechanical HVAC Improvements	FY 2021	8.7	_	_	8.6	_	_
114003	Improvements at Northeast, Southwest and Springwells Water Treatment							
	Plants	FY 2021	8.2	-	-	8.2	-	-
122011	Park-Merriman Road Water Transmission Main Other projects	FY 2022	9.6	1.5 47.0	0.4 47.0	6.4 22.9	- 26.3	0.7 94.4
	Total			\$ 129.8	\$ 158.7	\$ 51.2	\$ 90.6	\$ 273.0



### **Management's Discussion and Analysis**

#### **Sewage Disposal Fund**

There are ten major categories used for classification of capital assets for financial reporting purposes.

			Sewage	e Disp	osal Fund (	Capit	al Assets,	Net (\$000)			
		Fis	scal Year			Ch	ange 2022	vs 2021	Ch	ange 2021	vs 2020
	2022		2021		2020	A	mount	Percent	ŀ	Amount	Percent
Land	\$ 28,395	\$	28,143	\$	27,635	\$	252	0.9%	\$	508	1.8%
Easements	98,310		96,211		96,211		2,098	2.2%		-	0.0%
Construction in progress	193,100		191,120		177,023		1,980	1.0%		14,097	8.0%
Site improvements	19,997		22,367		25,723		(2,369)	-10.6%		(3,357)	-13.0%
Buildings and structures	875,529		901,933		939,379		(26,405)	-2.9%		(37,446)	-4.0%
Infrastructure	536,359		544,212		557,175		(7,852)	-1.4%		(12,964)	-2.3%
Machinery and equipment	699,630		746,466		771,966		(46,836)	-6.3%		(25,500)	-3.3%
Vehicles	4,206		3,847		1,895		359	9.3%		1,952	103.0%
Leasehold improvements	3,056		2,648		2,779		408	15.4%		(131)	-4.7%
Intangible assets	4,716		4,434		-		282	6.4%		4,434	100.0%
Total sewage disposal fund capital assets (net of depreciation and											
amortization)	\$ 2,463,298	\$	2,541,381	\$ :	2,599,786	\$	(78,083)	-3.1%	\$	(58,406)	-2.2%

Sewage Disposal Fund additions in 2022 and 2021 were mainly due to transfers out of construction in progress to the applicable asset category. Total additions for FY 2022 to construction in progress was \$67.4 million and transfers out of \$65.5 million. The total additions for FY 2021 to the construction in progress were \$81.5 million with \$67.4 million transferred to capital assets. Much of the activity for the year is related to the water resource recovery facility (WRRF). The table below summarizes major projects for the last two years. Comprehensive project plan details can be found within Capital Improvement Plan documents available at <a href="https://www.glwater.org/cip/">https://www.glwater.org/cip/</a>.



# **Management's Discussion and Analysis**

		Sewage Dis	sposal Fun	d (millions)				
		Expected	Project	Expe	nditures	Placed i	n Service	-
Project		Completion	Plan					CIP at
Number		Date	Estimate	FY 2021	FY 2022	FY 2021	FY 2022	6/30/2022
222002	Detroit River Interceptor Evaluation and Rehabilitation	FY 2028	\$ 77.2	\$ 16.9	\$ 5.2	\$ -	\$ -	\$ 42.3
232001	Fairview Pumping Station - Replace Four Sanitary Pumps	FY 2023	39.8	16.1	8.4	-	-	38.8
213007	WRRF Modific ation to Incinerator Sludge Systems at Complex - II	FY 2022	23.8	3.2	1.7	_	_	21.8
260201	Conveyance System Interceptor Rehabilitation	FY 2023	38.3	9.6	5.8	-	-	16.4
232002	Freud and Connor Creek Pump Station Improvements	FY 2031	262.8	3.2	6.0	5.9	-	10.6
260614	CSO Structural Inspection and Improvements	FY 2025	13.6	2.0	4.6	-	-	6.9
211004	Pump Station 1 Rack & Grit and MPI Sampling Station 1 Improvements	FY 2022	28.5	0.3	-	-	27.9	-
214001	WRRF Relocation of Industrial Waste Control Division and Analytical Laboratory Operations	FY 2021	14.2	2.6	0.4		12.0	
260603	Conner Creek CSO RTB Automation Improvements	FY 2021 FY 2022	14.3 8.2	3.6 0.5	0.1	-	12.0 7.7	0.1
211001	Rehabilitation of Primary Clarifiers, Rectangular Tanks, Drain Lines, Electrical/Mechanical Building and Pipe	2022	0.2	0.0	0.2			0.1
	Gallery	FY 2021	55.0	1.9	6.0	54.7	-	-
260616	Baby Creek Toward Treatment Sewer Improvements	FY 2021	1.0	0.1	-	1.0	-	-
260504	Rehabilitation of Outfalls - Phase 2	FY 2022	5.0	2.7	-	4.9	-	-
	Other projects			21.4	29.4	0.9	17.9	56.2
	Total			\$ 81.5	\$ 67.4	\$ 67.4	\$ 65.5	\$ 193.1



#### **Management's Discussion and Analysis**

#### Long-term Debt

The Authority's long-term debt consists of revenue bonds and loans as well as an obligation payable related to the City of Detroit's Financial Recovery bonds and a liability related to raw water rights that the Authority will own at the end of the agreement. See Note 13 for a complete analysis of the long-term debt. The following analysis focuses on the revenue bonds and loans. At year-end, the Authority had \$5.06 billion of long-term debt for revenue bonds, including capital appreciation bonds and state revolving fund loans. Of the total, \$2.24 billion is assigned to the Water System and \$2.82 billion is assigned to the Sewage Disposal System.

		Revenue Bonds and Loans (\$000)										
		Fiscal Year		Change 2022	2 vs 2021	Change 2021 vs 2020						
	2022	2021	2020	Amount	Percent	Amount	Percent					
Revenue bonds	\$ 4,568,635	\$ 4,707,965	\$ 4,840,155	\$ (139,330)	-3.0%	\$ (132,190)	-2.7%					
Capital appreciation bonds	-	5,675	11,335	(5,675)	-100.0%	(5,660)	-49.9%					
State revolving loans	489,078	488,027	488,985	1,051	0.2%	(958)	-0.2%					
Total revenue bonds and loans	\$ 5,057,713	\$ 5,201,667	\$ 5,340,475	\$ (143,954)	-2.8%	\$ (138,808)	-2.6%					

#### **Water Fund**

The total outstanding debt for the Water System is \$2.24 billion, decreasing by \$25.5 million from the prior year.

Approximately 4.9 percent of the total indebtedness is issued through the State of Michigan revolving fund loan program for the benefit of the Water System. The Water System received \$43.7 million in new state revolving fund loans and received \$2.5 million in loan forgiveness. The amount of state revolving fund loans pass-through to DWSD for local system improvements was \$18 million as well as the \$2.5 million in loan forgiveness.

		Wate	er Fund Revenue	Bonds and Loans (\$000)						
		Fiscal Year		Change 2022	2 vs 2021	Change 2021 vs 2020				
	2022	2021	2020	Amount	Percent	Amount	Percent			
Revenue bonds	\$ 2,128,89	\$ 2,192,510	\$ 2,261,935	\$ (63,620)	-2.9%	\$ (69,425)	-3.1%			
State revolving loans	109,42	71,260	39,318	38,169	53.6%	31,942	81.2%			
Total water revenue bonds and loans	\$ 2,238,31	9 \$ 2,263,770	\$ 2,301,253	\$ (25.451)	-1.1%	\$ (37.483)	-1.6%			
bullus allu lualis	\$ 2,230,31	\$ 2,263,770	\$ 2,301,233	<u>\$ (25,451)</u>	-1.170	<del>3 (31,403)</del>	-1.0%			

Repayment of GLWA bonds issued are funded by charges to all member partners. Repayment of the debt service assigned to DWSD for Local System improvements are paid from retail customer collections by DWSD.



### Management's Discussion and Analysis

#### Sewage Disposal Fund

The total outstanding debt for the Sewage Disposal System is \$2.82 billion, decreasing by \$118.5 million from the prior year.

Approximately 13.5 percent of the total indebtedness is issued through the State of Michigan revolving fund loan program for the benefit of the Sewage Disposal System. The Sewage Disposal System received \$10.5 million in new state revolving fund loans and received \$0.8 million in loan forgiveness. The amount of state revolving fund loans pass-through to DWSD for local system improvements was \$1.3 million as well as the \$0.8 million in loan forgiveness.

	Sewage Disposal Fund Revenue Bonds and Loans (\$000)											
		Fiscal	Year			Change 2022 vs 2021				Change 2021 vs 2020		
	2022	202	2021		020	Amount		Percent		Amount	Percent	
Revenue bonds	\$ 2,439,745	\$ 2,5	15,455	\$ 2,	578,220	\$	(75,710)	-3.0%	\$	(62,765)	-2.4%	
Capital appreciation bonds	-		5,675		11,335		(5,675)	-100.0%		(5,660)	-49.9%	
State revolving loans	379,648	41	16,768		449,667		(37,120)	-8.9%		(32,899)	-7.3%	
Total sewer revenue bonds and loans	\$ 2,819,393	\$ 2,93	37,898	\$ 3,0	039,222	\$	(118,505)	-4.0%	\$	(101,324)	-3.3%	

Repayment of GLWA bonds issued are funded by charges to all member partners. Repayment of the debt service assigned to DWSD for Local System improvements is paid from retail customer collections by DWSD.

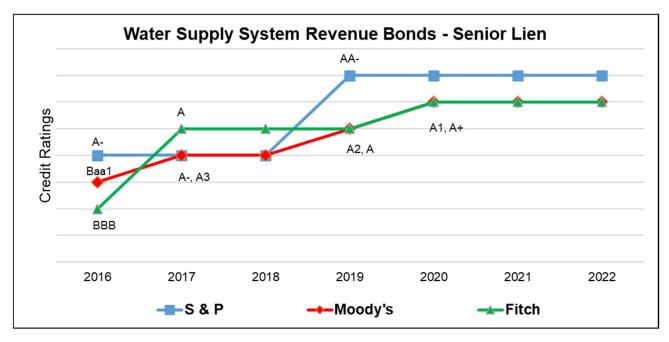
### **Credit Ratings**

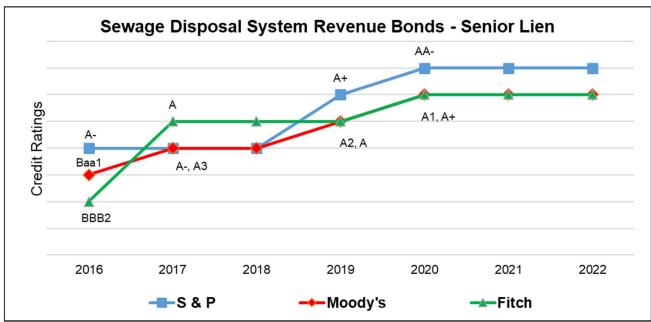
In August 2022, the Authority's ratings were upgraded or affirmed. For both the water system and the sewage disposal system Fitch Ratings affirmed the ratings with senior lien debt at A+ and second lien at A, the water system remained a stable outlook with the sewage disposal system upgraded to a positive outlook; Standard & Poor's affirmed the Authority's ratings with senior lien debt at AA- and second lien at A+, all with a stable outlook; and Moody's affirmed the Authority's ratings of senior lien debt at A1 and second lien at A2, the outlook was moved from stable to positive for both the water system and the sewage disposal system.



## **Management's Discussion and Analysis**

The following charts provide the credit rating history for senior lien revenue bonds since the GLWA began operations in 2016.





Additional information on the Authority's long-term debt can be found in Note 13.



### **Management's Discussion and Analysis**

#### **Economic Factors Affecting Next Year's Operations and Rates**

On February 23, 2022, the GLWA Board adopted the biennial budget for the Authority for fiscal years 2023 and 2024. That two-year financial plan remains true to a foundational commitment to control the budget within a 4 percent revenue cap as further described below.

#### Water Fund

For FY 2023 the budget increased by 3.5 percent. This translated into a regional system average charge increase of 3.7 percent and suburban wholesale member partner average charge increase of 3.5 percent depending on each customers usage in relation to other customers. The local system charge increased 3.0 percent.

#### Sewage Disposal Fund

For FY 2022 budget increased by 1.3 percent. This translated into a regional system average charge increase of 2.4 percent and suburban wholesale member partner average charge increase of 3.2 percent. The local system charge decreased 1.2 percent.

### City of Highland Park

In June 2022, the Board approved an adjustment to service charges for fiscal year 2023 that removed \$1.25 million for the water charges and \$5.4 million from the sewer charges for expected non-payment by the City of Highland Park. This adjustment was the result of a May 10, 2022 Wayne County Circuit Court order requiring the City of Highland Park to resume payments. Further, in August 2022, the Michigan Court of Appeals reinstated the 21 million dollar judgment against the City of Highland Park. The City of Highland Park has since filed an application with the Michigan Supreme Court to consider the case, which is pending. While these litigation successes are a big step forward, the litigation will continue for the foreseeable future. GLWA will pursue the recovery of amounts due from Highland Park and manage the Highland Park litigation through their final resolution. The resulting difference between revenues and revenue requirements for fiscal year 2023 will be balanced via the quarterly budget amendments.

#### **Requests for Information**

This financial report is designed to provide a general overview of GLWA's finances for all those with an interest in the Authority's finances. Questions concerning any of the information provided in this report or requests for additional financial information should be addressed to Great Lakes Water Authority, Office of the Chief Financial Officer, 735 Randolph, Detroit, Michigan 48226. This report is also available on the Authority's website at www.glwater.org.

**BASIC FINANCIAL STATEMENTS** 



STATEMENT OF NET POSITION
As of June 30, 2022
With Comparative Amounts at June 30, 2021

	Enterpri	se Funds		
	Water Fund	Sewage Disposal Fund	Total Business-type Activities	2021 Total Business-type Activities
Assets				
Current Assets				
Cash and cash equivalents	\$ 147,191,020	\$ 200,464,397	\$ 347,655,417	\$ 354,351,132
Restricted cash and cash equivalents	49,069,747	38,574,227	87,643,974	151,186,044
Restricted cash for the benefit of DWSD	11,371,285	9,098,348	20,469,633	6,064,197
Investments	91,499,859	93,709,233	185,209,092	322,929,971
Restricted investments	30,711,544	73,042,550	103,754,094	31,690,982
Receivables, net	70,897,955	46,858,599	117,756,554	112,325,889
Due from other governments	11,246,188	2,208,272	13,454,460	13,240,859
Due from other funds	2,328,086	-	2,328,086	2,948,712
Contractual obligation receivable	18,126,021	15,403,674	33,529,695	31,195,900
Shortfall receivable - DWSD	-	-	-	8,296,578
Prepaid items and other assets	8,701,487	4,920,898	13,622,385	11,744,542
Inventories		8,366,771	8,366,771	7,795,152
Total Current Assets	441,143,192	492,646,969	933,790,161	1,053,769,958
Noncurrent Assets				
Restricted cash and cash equivalents	2,773,291	2,491,300	5,264,591	5,395,501
Restricted investments	9,506,991	31,184,328	40,691,319	38,533,910
Contractual obligation receivable	549,493,189	369,794,921	919,288,110	936,811,819
Prepaid lease	11,250,000	13,750,000	25,000,000	25,000,000
Assets not subject to depreciation				
or amortization	567,414,021	320,526,307	887,940,328	813,485,421
Capital assets being depreciated, net	1,293,659,589	2,138,777,595	3,432,437,184	3,546,026,747
Intangible assets, net	90,652,709	3,993,977	94,646,686	98,653,054
Prepaid insurance on debt	6,649,782	10,124,011	16,773,793	18,357,442
Total Noncurrent Assets	2,531,399,572	2,890,642,439	5,422,042,011	5,482,263,894
Total Assets	2,972,542,764	3,383,289,408	6,355,832,172	6,536,033,852
Deferred Outflows of Resources				
Deferred charge on refunding	41,997,055	110,341,248	152,338,303	163,387,050
Deferred pension amounts	10,810,800	19,347,900	30,158,700	61,687,252
Total Deferred Outflows of Resources	52,807,855	129,689,148	182,497,003	225,074,302



		Enterpris	se F	unds				
	Water Fund			Sewage Disposal Fund		Total Business-type Activities		2021 Total usiness-type Activities
Liabilities				_				
Current Liabilities								
Accounts and contracts payable	\$ 56	,890,771	\$	37,488,263	\$ 9	94,379,034	\$	85,221,415
Accrued salaries, wages and benefits	1	,046,674		1,013,356		2,060,030		6,028,598
Accrued liabilities	15	,261,427		9,743,206	2	25,004,633		11,573,811
Due to other governments	17	,610,601		3,750,000	2	21,360,601		19,443,993
Due to other funds		-		2,328,086		2,328,086		2,948,712
Interest payable	36	3,398,995		34,566,553	-	70,965,548		71,811,380
Current portion of								
Revenue bonds and loans		,091,255		87,312,545	12	27,403,800		119,909,733
Raw water rights obligation	2	2,845,282		-		2,845,282		2,734,246
BC Note obligation		203,954		458,756		662,710		631,153
Regional system leases		5,686,745		6,950,466	•	12,637,211		12,121,951
Other liabilities	3	3,378,083		3,435,863		6,813,946		5,867,203
Total Current Liabilities	179	,413,787		187,047,094	36	66,460,881		338,292,195
Noncurrent Liabilities								
Revenue bonds and loans	2,359	,238,286	2	2,790,722,856	5,14	49,961,142	5	,319,896,659
Raw water rights obligation	92	2,515,774		-	(	92,515,774		95,361,056
BC Note obligation	16	3,338,339		36,750,113	į	53,088,452		53,751,162
Regional system leases		,095,662		489,005,809		89,101,471		901,738,681
Other liabilities		,132,979		16,989,290		21,122,269		21,514,839
Net pension liability	23	3,379,480	_	41,841,847		65,221,327		144,305,198
Total Noncurrent Liabilities	2,895	5,700,520	_3	3,375,309,915	6,27	71,010,435	6	,536,567,595
Total Liabilities	3,075	5,114,307	_3	3,562,357,009	6,63	37,471,316	_6	,874,859,790
Deferred Inflows of Resources								
Deferred gain on refunding	48	3,216,421		40,566,648	{	88,783,069		96,296,284
Deferred amounts for swap terminations		61,438		457		61,895		84,205
Deferred pension amounts	11	,224,189	_	20,087,733	;	31,311,922		<u>-</u>
Total Deferred Inflows of Resources	59	,502,048		60,654,838	12	20,156,886		96,380,489
Net Position (Deficit)								
Net investment in capital assets	(109	,163,683)		(85,551,623)	(19	94,715,306)		(302,012,473)
Restricted for debt service	•	,660,045		91,754,608	•	23,414,653		114,544,694
Restricted for payment assistance progran		,272,708		7,045,715		12,318,423		11,043,109
Unrestricted	(37	,034,806)		(123,281,991)	(16	60,316,797)		(33,707,455)
TOTAL NET POSITION (DEFICIT)	\$ (109	,265,736)	\$	(110,033,291)	\$ (2	19,299,027)	\$	(210,132,125)



# STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION For the Year Ended June 30, 2022

With Comparative Amounts for the Year Ended June 30, 2021

	Enterpris	se Funds		
	Water Fund	Sewage Disposal Fund	Total Business-type Activities	2021 Total Business-type Activities
Operating Revenues				
Wholesale customer charges Local system charges Industrial waste charges Pollutant surcharges	\$ 323,026,213 21,697,300 - -	\$ 268,813,369 188,662,200 8,300,278 5,181,816	\$ 591,839,582 210,359,500 8,300,278 5,181,816	\$ 589,991,584 209,885,200 8,004,939 6,719,964
Other revenues	234,462	429,491	663,953	766,943
Total Operating Revenues	344,957,975	471,387,154	816,345,129	815,368,630
Operating Expenses Operating expenses before depreciation and amortization				
Personnel	44,892,622	62,160,768	107,053,390	106,945,131
Contractual services	50,683,897	63,410,109	114,094,006	103,324,025
Utilities Chemicals	28,725,292 7,788,784	30,930,459 12,593,379	59,655,751 20,382,163	52,749,654 13,982,136
Supplies and other expenses	9,157,367	19,911,985	29,069,352	31,097,071
Capital program allocation	(1,618,459)	(1,013,677)	(2,632,136)	(3,191,809)
Intergovernmental reimbursements	(1,813,535)	(1,074,346)	(2,887,881)	(3,166,692)
Total operating expenses before depreciation and amortization	137,815,968	186,918,677	324,734,645	301,739,516
Depreciation	123,196,027	158,013,629	281,209,656	274,043,606
Amortization of intangible assets	3,566,664	439,704	4,006,368	3,676,590
Total Operating Expenses	264,578,659	345,372,010	609,950,669	579,459,712
Operating Income	80,379,316	126,015,144	206,394,460	235,908,918
Nonoperating Revenues (Expenses)				
Earnings (loss) on investments	(2,361,396)	(3,022,882)	(5,384,278)	1,259,624
Interest on shortfall and obligations receivable	25,107,207	17,157,558	42,264,765	43,722,511
Interest expense	(125,086,379)	(131,110,125)	(256,196,504)	(263,485,014)
Amortization of debt related items and				
cost of issuance	15,610,434	(2,292,419)	13,318,015	12,965,639
Legacy pension expense	(4,988,132)	(8,927,171)	(13,915,303)	(22,527,961)
WRAP (Water Residential Assistance Program) Other	(1,049,908) 388,656	(1,742,929) (234,915)	(2,792,837) 153,741	(1,517,453) (840,886)
Total Nonoperating Expenses	(92,379,518)	(130,172,883)	(222,552,401)	(230,423,540)
Income (loss) before capital contributions	(12,000,202)	(4,157,739)	(16,157,941)	5,485,378
Capital Contributions		6,991,039	6,991,039	5,960,000
Change in net position	(12,000,202)	2,833,300	(9,166,902)	11,445,378
NET POSITION (DEFICIT), Beginning of Year	(97,265,534)	(112,866,591)	(210,132,125)	(221,577,503)
NET POSITION (DEFICIT), END OF YEAR	<u>\$ (109,265,736)</u>	<u>\$ (110,033,291)</u>	\$ (219,299,027)	<u>\$ (210,132,125)</u>



STATEMENT OF CASH FLOWS For the Year Ended June 30, 2022 With Comparative Amounts for the Year Ended June 30, 2021

	Enterpris	se Funds		
		Sewage	Total	2021 Total
	Water	Disposal	Business-type	Business-type
	Fund	Fund	Activities	Activities
Cash Flows From Operating Activities				
Cash received from customers	\$ 335,022,666	\$ 470,114,343	\$ 805,137,009	\$ 802,115,043
Cash received from intergovernmental reimbursements	2,694,534	588,645	3,283,179	10,668,673
Cash payments for intergovernmental services provided	(1,813,536)	(1,074,346)	(2,887,882)	(3,166,693)
Cash payments to suppliers for goods and services	(98,259,357)	(121,676,647)	(219,936,004)	(200,268,869)
Cash payments for employee services	(46,681,790)	(62,331,347)	(109,013,137)	(102,255,393)
Cash payments to other governments for obligation payable	(875,509)	(1,969,294)	(2,844,803)	(2,844,803)
Cash payments for WRAP	(1,049,908)	(1,742,930)	(2,792,838)	(1,517,453)
Cash payments for GLWA share pension agreement	(11,440,800)	(20,475,400)	(31,916,200)	(31,916,200)
Cash received from insurance claims	72,709	592,797	665,506	1,695,458
Cash received nonoperating income	435,044	428	435,472	22,524
Cash received for DWSD nonoperating pension	4,427,400	3,066,700	7,494,100	7,494,200
Cash paid for DWSD nonoperating pension	(4,427,394)	(3,066,805)	(7,494,199)	(7,494,200)
Cash received for DWSD WRAP	671,100	1,510,400	2,181,500	2,004,000
Cash payments for DWSD WRAP	(671,100)	(1,510,400)	(2,181,500)	(3,682,547)
Cash increase from DWSD budgetary surplus (1)	7,470,103	6,024,896	13,494,999	14,466,362
Principal payments received on obligation receivable	15,820,056	14,244,900	30,064,956	28,499,200
Interest received on obligation receivable	26,069,023	17,500,600	43,569,623	45,031,354
Advanced payments received on obligation receivable	475,121	55,310	530,431	-0,001,004
Payments received from DWSD for previous year budget shortfall	470,121	8,296,578	8,296,578	18,206,431
Interest payments received on previous year budget shortfall	_	144,918	144,918	635,284
Cash received from DWSD for cost of issuance fees	49,500	49,500	99,000	-
Cash payments for issuance costs on DWSD obligation receivable	(79,000)	(49,500)	(128,500)	(20,328)
Payments of state revolving fund loan proceeds to DWSD	(11,851,337)	(1,288,152)	(13,139,489)	(15,741,109)
Net Cash Provided by Operating Activities	216,057,525	307,005,194	523,062,719	561,930,934
Net dasit i fortided by Operating Activities	210,037,323	307,003,194	323,002,719	
Cash Flows From Noncapital Financing Activities				
Proceeds from state revolving fund loans for DWSD	18,043,834	1,288,152	19,331,986	15,741,109
Cash received from grants	147,288	149,018	296,306	-
Principal payments	(15,820,056)	(14,244,900)	(30,064,956)	(28,454,200)
Interest payments	(25,787,369)	(17,430,450)	(43,217,819)	(42,651,558)
Net Cash Used in Noncapital Financing Activities	(23,416,303)	(30,238,180)	(53,654,483)	(55,364,649)
Cash Flows From Capital and Related Financing Activities				
Proceeds from insurance claims	-	345,645	345,645	_
Proceeds from sale of assets	15,857	239,128	254,985	82,050
Proceeds from state revolving fund loans	25,642,083	9,215,214	34,857,297	37,447,847
Payment of bond issuance costs	(204,225)	(37,500)	(241,725)	(684,403)
Principal payments on bonds	(50,798,000)	(113,955,100)	(164,753,100)	(161,510,800)
Principal payments on regional system leases	(5,454,878)	(6,667,073)	(12,121,951)	(11,627,700)
Principal payments on right to use lease	-	(189,119)	(189,119)	(96,310)
Interest payments	(95,078,335)	(112,599,419)	(207,677,754)	(200,707,390)
Purchase of capital assets	(158,973,426)	(75,575,344)	(234,548,770)	(215,507,276)
Net Cash Used in Capital and Related Financing Activities	(284,850,924)	(299,223,568)	(584,074,492)	(552,603,982)



Continued on Next Page

	Enterpris	se Funds		
	Water Fund	Sewage Disposal Fund	Total Business-type Activities	2021 Total Business-type Activities
Cash Flows From Investing Activities Investment purchases Investment sales and maturities Interest received	\$ (213,527,072) 279,775,191 2,259,942	\$ (307,745,971) 296,101,125 1,839,782	\$ (521,273,043) 575,876,316 4,099,724	\$ (435,022,177) 668,047,000 7,238,185
Net Cash Used in Investing Activities	68,508,061	(9,805,064)	58,702,997	240,263,008
Net change in cash and cash equivalents	(23,701,641)	(32,261,618)	(55,963,259)	194,225,311
CASH AND CASH EQUIVALENTS, Beginning of Year	234,106,984	282,889,890	516,996,874	322,771,563
CASH AND CASH EQUIVALENTS, END OF YEAR	\$ 210,405,343	\$ 250,628,272	\$ 461,033,615	\$ 516,996,874
STATEMENT OF NET POSITION CLASSIFICATION OF CASH Cash and cash equivalents Restricted cash and cash equivalents Restricted cash for the benefit of DWSD Noncurrent restricted cash and cash equivalents	\$ 147,191,020 49,069,747 11,371,285 2,773,291	\$ 200,464,397 38,574,227 9,098,348 2,491,300	\$ 347,655,417 87,643,974 20,469,633 5,264,591	\$ 354,351,132 151,186,044 6,064,197 5,395,501
CASH AND CASH EQUIVALENTS, END OF YEAR	\$ 210,405,343	\$ 250,628,272	\$ 461,033,615	\$ 516,996,874
NONCASH OPERATING ACTIVITIES  Credits given on billings-Flint KWA obligation Interest income obligation receivable premium amortization  NONCASH INVESTING, CAPITAL AND FINANCING ACTIVITIES	\$ (6,496,428) \$ (738,660)	\$ - \$ (392,284)	\$ (6,496,428) \$ (1,130,944)	\$ (6,652,253) \$ (1,162,290)
Increase in assets from contributed capital Increase in lease liability right to use asset Increase in intangible right to use asset Decrease in raw water rights obligation Interest paid for raw water rights obligation Increase in unrealized loss on investments Interest expense due to accretion Amortization income (expense)	\$ - \$ - \$ 2,734,246 \$ 3,762,182 \$ 860,822 \$ - \$ 15,815,659	\$ 6,991,039 \$ - \$ - \$ - \$ 2,530,920 \$ 170,931 \$ (2,254,919)	\$ 6,991,039 \$ - \$ - \$ 2,734,246 \$ 3,762,182 \$ 3,391,742 \$ 170,931 \$ 13,560,740	\$ 4,543,607 \$ 4,543,607 \$ 2,624,820 \$ 4,027,433 \$ 11,752,226 \$ 496,509 \$ 13,650,042



STATEMENT OF CASH FLOWS For the Year Ended June 30, 2022 With Comparative Amounts for the Year Ended June 30, 2021

Continued From Previous Page

	Enterpris	se Funds		
		Sewage	Total	2021 Total
	Water	Disposal	Business-type	Business-type
	Fund	Fund	Activities	Activities
Reconciliation of Operating Income to Net				
Cash Provided by Operating Activities:				
Operating income	\$ 80,379,316	\$ 126,015,144	\$ 206,394,460	\$ 235,908,918
Adjustments to reconcile operating income				
to net cash provided by operating activities:				
Depreciation	123,196,027	158,013,629	281,209,656	274,043,606
Amortization of intangible assets	3,566,664	439,704	4,006,368	3,676,590
Credits for raw water rights	(6,496,427)	-	(6,496,427)	(6,652,253)
Miscellaneous nonoperating income (expense)	435,044	281,926	716,970	22,524
Legacy pension expense and administrative fee	(5,150,550)	(9,217,846)	(14,368,396)	(23,026,334)
WRAP (Water Residential Assistance Program)	(1,049,908)	(1,742,929)	(2,792,837)	(1,517,453)
Loan forgiveness pass-through to DWSD	(2,518,000)	(808,000)	(3,326,000)	(2,031,300)
Interest income on contractual obligation receivable	25,107,207	17,012,640	42,119,847	43,087,227
Interest income on shortfall receivable	-	144,918	144,918	635,284
Interest expense on obligation payable	(681,267)	(1,532,384)	(2,213,651)	(2,243,706)
Changes in:				
Receivables	(3,613,279)	(1,817,386)	(5,430,665)	(6,602,963)
Due from other governments	602,303	(900,148)	(297,845)	18,210,185
Due from other funds	458,258	162,368	620,626	(814,521)
Contractual obligation receivable	1,032,882	14,157,032	15,189,914	15,951,680
Shortfall receivable	-	8,296,578	8,296,578	18,206,431
Prepaid items and other assets (operating)	(1,561,979)	(902,781)	(2,464,760)	(2,417,019)
Inventories	794,521	(1,366,140)	(571,619)	(787,944)
Accounts payable (operating)	1,113,432	6,585,172	7,698,604	1,567,813
Accrued salaries, wages and benefits	(3,845,359)	(123,209)	(3,968,568)	706,734
Accrued liabilities	8,302,871	5,127,951	13,430,822	6,216,755
Due to other governments	1,916,608	-	1,916,608	(588,261)
Due to other funds	(162,368)	(458,258)	(620,626)	814,521
Obligation payable including accrued interest	(194,242)	(436,911)	(631,153)	(601,097)
Other noncurrent liabilities	248,439	494,853	743,292	(2,203,744)
Net pension liability and deferred items	(5,822,668)	(10,420,729)	(16,243,397)	(7,630,739)
NET CASH PROVIDED BY OPERATING ACTIVITIES	\$ 216,057,525	\$ 307,005,194	\$ 523,062,719	\$ 561,930,934

<sup>(1)</sup> Represents local system retail receipts received in excess of DWSD's current year budget requirements. Amounts will be used to meet future budget requirements.



# **NOTES TO FINANCIAL STATEMENTS**



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NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

#### NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The Great Lakes Water Authority (GLWA or the Authority) is the regional wholesale provider of water and sewage disposal services in southeast Michigan. The Authority was incorporated by the counties of Macomb, Oakland, Wayne and the City of Detroit (the City) on November 26, 2014 pursuant to Act 233, Public Acts of Michigan, 1955, as amended (Act 233). Pursuant to Regional System Leases that became effective on January 1, 2016, the Authority assumed possession and control of the regional assets of both the water supply and sewage disposal systems owned by the City, which were previously operated by the Detroit Water and Sewerage Department (DWSD). The City, acting through DWSD, will continue to manage and operate its own local retail water and sewage disposal system infrastructure. The Regional System Leases assigned all revenues of both systems to the Authority for an initial term of 40 years and, pursuant to bondholder consent, replaced the City with GLWA as the obligor on all outstanding debt obligations of the City related to the systems.

The term "Regional System Leases" is used throughout the financial statements to represent the agreements that transferred the regional water system and sewage disposal system assets and operations from the City of Detroit to GLWA. The Regional System Leases are not considered a lease as defined by the Government Auditing Standards Board (GASB) in GASB Statement No. 87, Leases.

The Authority's water system is one of the largest in the United States, both in terms of water produced and population served. The water system currently serves an area of 1,698 square miles located in eight Michigan counties and an estimated population of approximately 3.8 million or approximately 38% of Michigan's population. Suburban wholesale customers comprise approximately 82% of the population in the service area, and the DWSD retail water customers comprise the remainder.

The Authority's sewage disposal system is one of the largest in the United States, both in terms of treatment capacity and population served. The sewer disposal system currently serves an area of 944 square miles located in three Michigan counties and an estimated population of approximately 2.8 million or approximately 28% of Michigan's population. Suburban customers comprise approximately 76% of the population in the service area, and the DWSD retail sewer customers comprise the remainder.

The Authority's Board is authorized to establish rates, fees and charges for its water supply and sewage disposal services. Under the Water and Sewer Services Agreement, the City is appointed as agent of the Authority for setting retail rates and for billing, collecting and enforcing the collection of charges from retail water and sewer customers. As an agent of the Authority, the City, through the Board of Water Commissioners and without further approval by the City Council, is required to set retail rates to meet the revenue requirements that the Authority establishes for the retail system for regional commitments as well as other reasonable costs of the local DWSD systems. Under certain conditions, the Authority may terminate the City's appointment.

The financial statements of the Authority have been prepared in conformity with generally accepted accounting principles (GAAP) as applied to government units. The Governmental Accounting Standards Board (GASB) is the accepted standard setting body for establishing governmental accounting and financial reporting principles. The more significant of the Authority's accounting policies are described below.



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (cont.)

#### REPORTING ENTITY

The GLWA Board is composed of six voting members. Two members are residents of the City of Detroit and are appointed by the Mayor of the City of Detroit. The chief executive of the counties of Macomb, Oakland and Wayne each appoint one member who is a resident of the county from which appointed and the Governor of the State of Michigan appoints one member who is a resident of an area served by the Authority outside of the counties. All members of the GLWA Board must have at least seven years of experience in a regulated industry, a utility, engineering, finance, accounting or law firm. After the initial term specified in its Articles of Incorporation, each GLWA Board member is appointed for a four-year term and serves at the pleasure of the appointing government.

The GLWA Board has adopted a committee structure. Four committees have been established: Audit, Capital Improvement Planning, Operations and Resources, and Legal.

#### **BASIS OF PRESENTATION**

The Authority presents a water enterprise fund and a sewage disposal enterprise fund for its basic financial statements which consists of a statement of net position, statement of revenues, expenses and changes in net position, a statement of cash flows and these notes to the financial statements.

#### **BASIS OF ACCOUNTING**

The accounting policies of the Authority conform to GAAP as applicable to governmental entities. The accounts of the Authority are used to account for its activities, which are financed and operated in a manner similar to a private business enterprise. Accordingly, the Authority maintains its records on the accrual basis of accounting. Revenues from operations, investments and other sources are recorded when earned. Expenses (including depreciation) of providing services to the public are accrued when incurred.

Nonexchange transactions, in which the Authority receives value without directly giving equal value in return, include contributions and grants. On an accrual basis, revenue from contributions and grants is recognized in the fiscal year in which all eligibility requirements have been satisfied, including timing and expense requirements. Timing requirements specify the year when the resources are required to be used or the fiscal year when use is first permitted. Expense requirements specify the year in which the resources are provided to the Authority on a reimbursement basis.

# ASSETS, DEFERRED OUTFLOWS OF RESOURCES, LIABILITIES, DEFERRED INFLOWS OF RESOURCES, AND NET POSITION

## Cash and Cash Equivalents and Investments

The Authority's cash and cash equivalents are considered to be cash on hand, demand deposits and short-term investments with original maturities of three months or less from the date of acquisition. Investments are reported at fair value or estimated value. The Authority maintains and adheres to a formal investment policy in accordance with Michigan Public Act 20 of 1943, Investment of Surplus Funds of Political Subdivisions. Michigan State law allows the Authority to deposit in the accounts of federally insured banks, credit unions and savings and loan associations and to invest in obligations of the U.S. Treasury, certain commercial paper, repurchase agreements, bankers' acceptances and mutual funds composed of otherwise legal investments. These investments are subject to interest rate risk and credit risk which may affect the value at which these investments are recorded.

## Restricted Assets

Restricted assets are those assets set aside as required by the Authority's Master Bond Ordinance (MBO), funds held on behalf of another entity, or where legally restricted for a particular purpose such as bond proceeds for the capital program. See Note 4 for further details.



# NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

## **NOTE 1 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (cont.)**

#### Accounts Receivable, Net

The Authority records unbilled revenues for services provided prior to year-end by accruing actual revenues billed in the subsequent month. The Authority recognizes an estimate of uncollectible accounts for its customer accounts receivable related to its water and sewage disposal services.

#### Due from and Due to Other Governments

The due from other governments includes amounts owed to the Authority by DWSD for shared services and intergovernmental agreements, accrued interest receivable on the contractual obligation receivable and grants. The due to other governments includes amounts owed by the Authority to DWSD for shared services, the green infrastructure program and state revolving fund pass through to DWSD that were received by the Authority but not disbursed to DWSD by June 30, 2022.

# Due from and Due to Other Funds

An amount owed between the Water and Sewage Disposal Funds based on shared centralized and administrative services administered by the Water Fund and allocated to the Sewage Disposal Fund. Any water system usage of inventory in the Sewage Disposal Fund is charged through an interfund payable to the Sewage Disposal Fund.

#### Contractual Obligation Receivable

Pursuant to the Water and Sewer Services Agreement, the City through DWSD is responsible for paying the portion of debt service on the bonds assumed by the Authority that were issued to finance the cost of improvements to the Detroit local facilities. The resulting contractual obligation is a receivable recorded by the Authority and is repaid by DWSD based upon an agreed upon schedule. Any new debt issued on behalf of the City for DWSD is also included in the contractual obligation receivable.

# Shortfall Receivable - DWSD

A shortfall arises when the local system cash receipts are insufficient to meet the MBO obligations. Pursuant to the 2018 Memorandum of Understanding (MOU) dated June 27, 2018 executed between DWSD and the Authority any DWSD shortfall not cured by the end of the fiscal year following the year in which the shortfall arises shall be repaid in full, in installments, over a period not to exceed three fiscal years, plus a surcharge. Prior year shortfalls were paid off during the current fiscal year. There was no shortfall of local revenue requirements for the year ending June 30, 2022.

## Prepaid Items and Other Assets

Certain payments to vendors reflect costs applicable to future accounting periods and are recorded as prepaid items in the financial statements. Prepaid insurance on debt is amortized over the life of the debt. Other assets include accrued interest receivable on investments.

#### Inventories

Inventories consist of operating, maintenance and repair parts for sewage disposal system assets and are valued at the lower of cost or market, with cost being determined on an average cost method. Inventory is recorded as expense when consumed rather than when purchased. The water fund does not report inventory because the amounts are insignificant and for efficiency are recorded in the sewage disposal fund. Any inventory usage by the water fund is charged through an interfund payable to the sewage disposal fund.

#### Prepaid Lease

As described in Note 14, the Authority has recorded a prepaid lease for cash paid to DWSD on the date GLWA began operations equivalent to six months of lease payments. As noted in the 2018 MOU dated June 2018, this amount will be applied at the end of the 40-year term and, hence, it is classified as a noncurrent asset.



# NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

## NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (cont.)

#### Capital Assets

Capital assets are recorded at historical cost. All acquisitions of land and land improvements are capitalized regardless of cost. The capitalization threshold is \$5,000 for capital assets with an estimated useful life greater than one year, except for information technology assets and the right to use leased assets. The capitalization threshold for information technology assets is \$1,000,000 with an estimated useful life greater than three years. Subscription-Based Information Technology Arrangement (SBITA) contracts greater than \$1,000,000 are analyzed for the both the quantitative and qualitative aspects of materiality to determine if they will be recorded as an intangible asset under GASB 96. Right to use leased assets have a capitalization threshold of \$1,000,000 for leases greater than one year. The costs of normal maintenance and repairs that do not add to the value of the asset or materially extend assets' lives are not capitalized. Major outlays for capital assets and improvements are capitalized as projects are constructed.

Capital assets acquired after January 1, 2016 are depreciated on the straight-line basis over the useful life of the assets as follows:

	Useful Lives (In Years)
Site improvements	15
Buildings and structures	20-50
Infrastructure	80
Machinery and equipment	3-20
Vehicles	5-7
Leasehold improvements	15

Capital assets acquired as of the operational effective date of the Authority at January 1, 2016 are depreciated over their estimated remaining useful lives at that time as determined by a third-party valuation. These remaining lives differ from the years cited above for newly acquired capital assets and, in most instances, are significantly shorter.

#### Intangible Assets

The Authority has recorded an intangible asset for raw water rights which are being amortized on a straight-line basis over 30 years in the water fund. See Note 10 for a description of these rights. The Authority has recorded a right to use intangible asset for the lease of a warehouse in the sewage disposal fund. See Note 15 for a description of the leased right to use asset.

### Prepaid Insurance on Debt

Prepaid insurance on debt represents insurance costs incurred in connection with the issuance of long-term debt. Such costs are being amortized over the term of the respective debt using the straight-line method.

#### Deferred Outflows of Resources

In addition to assets, the statement of net position reports a separate section for deferred outflows of resources. This separate financial statement element represents a consumption of net assets that applies to future periods. At that time, the activity will be recognized as an outflow of resources (or expense). The Authority reports deferred outflows of resources for two items: deferred charges on refunding and pension amounts. Deferred charges on refunding results from the difference in the carrying value of refunded debt and its reacquisition price; these amounts are deferred and amortized over the shorter of the life of the refunded or refunding debt. Deferred outflows of resources from pension amounts relate to contributions to the plan subsequent to the plan measurement date. More detailed information on pension amounts can be found in Note 18.



## NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

## **NOTE 1 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (cont.)**

## Accrued Liabilities

Accrued liabilities represent amounts held for specific purposes or other parties as described below:

- Under the terms of the MBO, the Authority retains cash on hand for the benefit of DWSD to be used for current revenue requirements.
- Pursuant to the water service contract with a customer, the Authority holds a security deposit for \$3,750,000 plus interest earned net of bank fees.
- Advanced billings on rentals
- Insurance proceeds received that have not been spent

## Revenue Bonds and Loans

The Authority issues revenue bonds to finance capital improvement projects, refund outstanding bonds to reduce future debt service payment and pay the cost of issuance. Loans are direct borrowings through the State of Michigan revolving fund loan program. Bond premiums and discounts are deferred and amortized over the life of the bonds using the effective interest method. Bonds payable are reported net of the applicable bond premium or discount. See Note 13 for the details on revenue bonds and loans.

#### Raw Water Rights Obligation

The Authority has recorded a liability for the purchase obligation on raw water rights. See Note 13 for the details of this obligation.

# **BC Note Obligation**

Under the terms of the lease agreements with the City, the Authority is required to pay a portion of the City's B and C notes allocated to the regional water and sewage disposal systems. See "BC Note Obligation" in Note 13.

# Regional System Leases

The effective date of the Regional System leases by the City to the Authority for the leased water and sewage disposal facilities was January 1, 2016. See Note 14 for the details of the regional system leases.

#### Other Liabilities

Other liabilities include the following liabilities which are discussed in Note 15:

- Lease payable right to use asset
- Compensated absences
- Workers' compensation
- Claims and judgements
- Cash held for the benefit of DWSD budget stabilization

#### Net Pension Liability

Under the terms of the Regional System leases, the Authority is a nonemployer contributing entity in the City of Detroit General Employee's Retirement system (GRS) Component II plan in a special funding situation. For the purposes of measuring the net pension liability, deferred outflows, and pension expense, information about the fiduciary net position of the Component II plan of the GRS and additions to/ deductions from the plan's net position have been determined on the same basis as they are reported by GRS. The GRS combined plan uses the economic resources measurement focus and the full accrual basis of accounting. Revenue is recorded when earned and expenses are recorded when a liability is incurred. Plan member contributions are recognized in the period in which the contributions are due. Benefits are recognized when due and payable in accordance with the terms of the plan. Investments are reported at fair value or estimated fair value. Refer to Note 18 for additional information on the net pension liability.



# NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# **NOTE 1 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (cont.)**

## Deferred Inflows of Resources

In addition to liabilities, the statement of net position includes a separate section for deferred inflows of resources. This separate financial statement element represents an acquisition of net assets that applies to future periods. At that time, the activity will be recognized as an inflow of resources (or revenues). The Authority has included the deferred gain on refunding, deferred amounts on swap terminations and deferred pension amounts in this reporting category. Deferred gain on refunding results from the difference in the carrying value of refunded debt and its reacquisition price; these amounts are deferred and amortized over the shorter of the life of the refunded or refunding debt. The deferred amounts on swap terminations were assumed as part of the regional system lease agreements with the City. The amounts will be fully amortized for both funds by fiscal 2035. Deferred inflows of resources from pension amounts relate to differences between expected and actual investment returns. More detailed information on pension amounts can be found in Note 18.

#### Net Position (Deficit)

Net position, which represents the difference between assets, deferred outflows of resources, liabilities and deferred inflows of resources, is reported in three components as follows:

Net Investment in Capital Assets - consists of capital assets, net of accumulated depreciation and reduced by the balance of outstanding related debt including the share of the regional system lease liability allocable to the net investment in capital assets acquisition value of the regional systems recorded under GASB 69.

Restricted – consists of amounts that are legally restricted by outside parties or by law through constitutional provisions or enabling legislation. The restricted net position consists of restricted assets reduced by liabilities related to those assets.

Unrestricted – is the residual balance of net position after net investment in capital assets and restricted.

When both restricted and unrestricted resources are available for use, generally it is the Authority's policy to use restricted resources first and then unrestricted resources when they are needed.

# STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

### Classification of Revenues and Expenses

The Authority classifies its revenues and expenses as either operating or nonoperating.

Operating revenues are those revenues generated from providing services in connection with the Authority's principal ongoing operations. The principal operating revenues of the Authority are wholesale charges for providing water and wastewater treatment. The local system charges are the charges to the City of Detroit under the Water and Sewer Services Agreement (WSSA), dated June 12, 2015. Wholesale customer charges are shown net of loss contingency expense of \$2,354,715 for the Water Fund and \$3,612,517 for the Sewage Disposal Fund.

Operating expenses include the direct costs of operating the water and sewage disposal systems, centralized support, utilities, administrative expenses, depreciation on capital assets and amortization of intangible assets. The following items are shown as a reduction to operating expenses:

- The capital program allocation represents personnel costs that support the project delivery of the Capital Improvement Plan and have been capitalized.
- Intergovernmental reimbursements represent reimbursement of costs related to shared facilities
  and personnel which the Authority provides to DWSD through a shared services agreement or
  separate interlocal agreement. It also includes reimbursement of costs for contracted services that
  are billed to member partners under an intergovernmental agreement.

All revenue and expenses not meeting these definitions above are reported as nonoperating revenues and expenses.



# NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

#### **NOTE 1 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (cont.)**

## **Taxes**

The Authority pays no direct federal, state or local taxes, except local taxes on excess property and federal Social Security and Medicare taxes.

#### Interest Income on Shortfall and Obligations Receivable

Interest income is the interest earned on the shortfall receivable and the contractual obligation receivable.

#### Amortization of Debt Related Items and Cost of Issuance

Bond premiums, discounts, and gains or losses on refunding are deferred and amortized over the life of the bonds. Bond premiums, discounts and GASB 69 debt value adjustment are amortized using the effective interest method. The deferred amounts on refunding are amortized using the straight-line method. Debt cost of issuance is expensed when incurred.

## Legacy Pension Expense

GLWA is legally responsible for making substantial contributions to a legacy pension plan of another entity, see Note 18 for additional information on this Plan.

#### Water Residential Assistance Program (WRAP)

The Water Residential Assistance Program is a unique program that started with the formation of GLWA. The program provides that an amount equal to half of one percent of GLWA Regional Systems revenue be set aside to provide assistance to qualified residents in participating communities across southeast Michigan. The amount expensed represents the amount expended for this purpose during the year. Amounts set aside and not spent are shown as restricted cash. Information on restricted assets is disclosed in Note 4.

#### Centralized Services and Administrative Services

Certain costs incurred by the Authority are allocated between the Water and Sewage Disposal Funds. The allocations are based on an annual cost allocation analysis. The following table shows the allocation of these common costs for the year ended June 30, 2022:

Common Costs	Water % Allocation	Water Allocation	Sewer % Allocation	Sewer Allocation	Total Common Costs
Centralized services Administrative	51.5%	\$ 47,258,919	48.5%	\$ 44,463,100	\$ 91,722,019
services	43.8%	\$ 14,636,708	56.2%	\$ 18,754,698	\$ 33,391,406

Centralized services includes the following operating areas: planning services, systems control, facility operations, fleet operations, field service operations, energy research and innovation, transformation, information technology and security and integrity.

Administrative services includes the following operating areas: board of directors, chief executive officer, chief administrative and compliance officer, general counsel, public affairs, organizational development, and financial services.



# NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

#### NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (cont.)

#### Capital Contribution

The current wastewater disposal service contract with the Oakland-Macomb Interceptor Drain Drainage District (OMIDD) provides for OMIDD to maintain, repair, and improve Interceptor PCI-5, the Northeast Sewer Pump Station and the North Interceptor East Arm, which are related to the capital assets in the Regional Sewage Disposal System Lease (See Note 14). During the fiscal year ending June 30, 2022, OMIDD transferred to GLWA and GLWA accepted and placed into service capital assets of \$6,991,039 which has been recognized as a capital contribution.

#### **USE OF ESTIMATES**

The preparation of basic financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the basic financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

#### **ADOPTION OF NEW ACCOUNTING STANDARDS**

GASB Statement No. 96, Subscription-Based Information Technology Arrangements (SBITA) is effective for years beginning after June 15, 2022. The Authority has implemented this statement early for the fiscal year ending June 30, 2022. This implementation did not have any effect on previous reporting periods as the existing or amended SBITA contracts terms did not result in recording a subscription asset or the contracts started during the current fiscal year.

The following GASB pronouncements were implemented in the current fiscal year with no effect on the financial statements as a result of implementation:

- Statement No. 92, Omnibus 2020
- Statement No. 93, Replacement of Interbank Offer Rates
- Statement No. 97, Certain Component Unit Criteria, and Accounting and Financial Reporting for Internal Revenue Code Section 457 Deferred Compensation Plans - an amendment of GASB Statements No. 14 and No.84, and a supersession of GASB Statement No. 32
- Statement No. 99, Omnibus 2022

### NEW ACCOUNTING PRONOUNCEMENTS TO BE IMPLEMENTED IN THE FUTURE

The following GASB pronouncements will be implemented in the future. The Authority has not completed its assessment of the future impact of the adoption of these statements, if any.

- \* Statement No. 91, *Conduit Debt Obligations* (effective for fiscal years beginning after December 15, 2021)
- \* Statement 94, *Public-Private and Public-Public Partnerships and Availability Payment Arrangements* (effective for fiscal years beginning after June 15, 2022)
- \* Statement No. 100, Accounting Changes and Error Corrections-an amendment of GASB Statement No. 62 (effective for fiscal years beginning after June 15, 2023)
- \* Statement No. 101, Compensated Absences (effective for fiscal years beginning after December 15, 2023)

#### RECLASSIFICATIONS

Certain prior year amounts have been reclassified to conform to current year presentation.



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

#### **NOTE 2 – BUDGETARY INFORMATION**

The financial activity of the Authority is presented in two enterprise funds. While enterprise funds are not required under State statutes to adopt appropriated budgets, the Authority's Articles of Incorporation outlines a budget adoption process. Budget to actual schedules for revenues and expenses are presented in the Supplementary Information section of this report. This schedule is not required by GAAP or subject to audit procedures. It is presented strictly for informational purposes.

#### **BUDGET PROCESS**

GLWA adopts a biennial budget for the regional water and sewage disposal systems as required by its Articles of Incorporation. The revenue requirements budget is adopted separately for the water and sewerage disposal systems. It is the sum of: a) operation and maintenance expenses; b) amounts necessary to pay the principal of and interest on all bonds and to fund any reserves required by the Master Bond Ordinance; c) the lease payment, which shall be a common-to-all charge; d) GLWA's portion of the GRS net pension liability and the BC Note obligation; e) the required deposit to the Water Residential Assistance Program (WRAP) Fund; f) the amounts needed to make the required deposits to the regional Extraordinary Repair and Replacement Reserve Fund and the regional Improvement and Extension Fund as defined in the Master Bond Ordinance; and g) the amount necessary to satisfy the coverage ratios required by the rate covenant in the Master Bond Ordinance.

As provided in the Regional System leases, through the fiscal year ending June 30, 2025, the water and sewage disposal systems are limited to annual increases in the regional revenue requirement of not more than 4%. This limitation shall not be applicable, however, if the regional revenue requirement must increase beyond the 4% assumption in order to satisfy the rate covenant or to pay the cost of improvements to the leased water and/or sewage disposal facilities that are required to be made by applicable laws.

In the Regional System leases, the City acknowledges that all local water and sewer system revenues received from customers in the City are the property of GLWA and will be deposited as received in the Receiving Fund as defined in the Master Bond Ordinance and applied as provided in the Bond Ordinance. As a result, the City agrees to provide the Authority with a budget for the local water and sewage disposal system as required in the Water and Sewer Services Agreement.

# SCHEDULE OF CHARGES PROCESS

The GLWA Wholesale Customer Model Water Contract and GLWA Wholesale Customer Model Sewer Contract requires that GLWA provide wholesale customers with written notice of a proposed charge, meet to review the proposed charge, and the underlying data used to calculate the charge not less than 30 calendar days prior to a public hearing. Further, the contract requires that a public hearing be held no less than 120 days prior to the date that proposed charges take effect.

The Water and Sewer Services Agreement between GLWA and DWSD requires that GLWA provide the City with written notice of the proposed charge and the underlying data used to calculate the charge not less than 120 calendar days prior to the effective date of any new charge.



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

#### **NOTE 3 – CASH DEPOSITS AND INVESTMENTS**

Michigan Compiled Laws Section 129.91 (Public Act 20 of 1943, as amended) authorizes the Authority to make deposits and invest in the accounts of federally insured banks, credit unions, and savings and loan associations that have offices in Michigan. The law also allows investments outside the state of Michigan when fully insured. The Authority is allowed to invest in bonds, securities, and other direct obligations of the United States or any agency or instrumentality of the United States; repurchase agreements; bankers' acceptances of United States banks; commercial paper rated within the two highest classifications that matures not more than 270 days after the date of purchase; obligations of the State of Michigan or its political subdivisions that are rated as investment grade; and mutual funds composed of investment vehicles that are legal for direct investment by local units of government in Michigan.

The deposits and investments of the Authority at June 30, 2022 are reported in the basic financial statements as follows:

		Water Sewage				
		Fund	nd Disposal Fund		Total	
Statement of Net Position						
Cash and cash equivalents	\$	147,191,020	\$	200,464,397	\$	347,655,417
Restricted cash and cash equivalents		49,069,747		38,574,227		87,643,974
Restricted cash for the benefit of DWSD		11,371,285		9,098,348		20,469,633
Investments		91,499,859		93,709,233		185,209,092
Restricted investments		30,711,544		73,042,550		103,754,094
Noncurrent restricted cash and cash equivalent	S	2,773,291		2,491,300		5,264,591
Noncurrent restricted investments		9,506,991		31,184,328		40,691,319
Total	\$	342,123,737	\$	448,564,383	\$	790,688,120
Cash Deposits and Investments						
Bank deposits - checking and savings accounts	\$	44,666,252	\$	16,225,280	\$	60,891,532
Money market accounts		165,739,091		234,402,992		400,142,083
Investments in securities		131,718,394		197,936,111		329,654,505
Total	\$	342,123,737	\$	448,564,383	\$	790,688,120

### **CUSTODIAL RISK OF BANK DEPOSITS**

Deposits and money market accounts are exposed to custodial credit risk if they are not covered by depository insurance. At year-end, the carrying amount of the Authority's deposits and money market accounts was \$210,405,342 for the water fund and \$250,628,272 for the sewage disposal fund. The bank balance of the water fund deposits and money market accounts was \$212,293,856 of which \$198,211,298 was uninsured and uncollateralized. The bank balance of the sewage disposal fund deposits and money market accounts was \$250,628,272 of which \$250,378,272 was uninsured and uncollateralized.

In accordance with the Authority's investment policy and State law, all deposits are held in the Authority's name, and evidenced by a safekeeping receipt. Also, due to the dollar amounts of cash deposits and the limits of FDIC insurance, the Authority believes it is impractical to insure all bank deposits. As a result, the Authority evaluates each financial institution and assesses the level of risk of each institution; only those institutions with an acceptable estimated risk level are used as depositories.



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# **NOTE 3 – CASH DEPOSITS AND INVESTMENTS (cont.)**

#### INVESTMENTS

Following is a summary of the Authority's investments as of June 30, 2022:

		Water Fund	Standard & Poors Rating	Weighted Maturity In Years
U.S. treasury notes U.S. government agencies Commercial paper	\$	55,845,338 43,932,520 31,940,536	AA+ AA+ A1	1.38 0.88 0.04
Total	<u>\$</u>	131,718,394		
		Sewage Disposal Fund	Standard & Poors Rating	Weighted Maturity In Years
U.S. treasury notes U.S. government agencies Commercial paper	\$	102,953,175 26,201,191 68,781,745	AA+ AA+ A1	1.34 0.90 0.09
Total	\$	197,936,111		
		Total	Standard & Poors Rating	Weighted Maturity In Years
U.S. treasury notes U.S. government agencies Commercial paper	\$	158,798,513 70,133,711 100,722,281	AA+ AA+ A1	1.35 0.89 0.07
Total	<u>\$</u>	329,654,505		

## **CUSTODIAL RISK OF INVESTMENTS**

Investments are exposed to custodial credit risk if the securities are uninsured, unregistered or held by a counterparty or its agent but not in the government's name. In accordance with the Authority's investment policy, all investments are held in the name of the Authority and are evidenced by a safekeeping receipt confirmation, and thus not exposed to custodial credit risk.



# NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

#### **NOTE 3 - CASH DEPOSITS AND INVESTMENTS (cont.)**

#### **CREDIT RISK**

Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations. The Authority's investment policy and State law require that commercial paper be rated in the top two ratings by at least two nationally recognized statistical rating organizations.

As of June 30, 2022, all of the Authority's investments in securities of U.S. agencies were rated AA+ by Standard & Poor's and Aaa by Moody's. The Authority's investment in commercial paper was rated A1 by Standard and Poor's and P1 by Moody's. U.S Treasury notes are explicitly guaranteed by the U.S. government and not considered to have credit risk. The Authority's money market accounts were not rated.

#### CONCENTRATION OF CREDIT RISK

Concentration of credit risk is the risk of loss attributed to the magnitude of a government's investment in a single issuer. In order to manage its exposure risk, the Authority's investment policy requires diversification by security type to no more than 50% of the total investment portfolio.

At June 30, 2022, the Authority had greater than 5% of its total investment portfolio concentrated as follows:

Investment Type	Issuer	% of Portfolio		
Water Fund				
U.S. government agencies	Federal National Mortgage Association	24.47%		
U.S. government agencies	Federal Home Loan Mortgage Company	10.89		
Commercial paper	Nordea Bank Abp	10.94		
Sewage Disposal Fund				
U.S. government agencies	Federal National Mortgage Association	8.72		
Commercial paper	Goldman Sachs	7.62		
Commercial paper	Nordea Bank Abp	7.53		

#### INTEREST RATE RISK

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of investments. As a means of limiting its exposure to fair value losses due to rising interest rates, the Authority's investment policy limits the maximum maturity period to no more than five years, unless matched to a particular cash flow need. The Authority's investment policy further provides risk will be minimized by matching investments with short and long-term cash flow requirements and monitoring the maturity dates of individual securities and the weighted average maturity of the investment portfolio, to ensure duration is commensurate with the cash flow requirements.



# NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# **NOTE 3 – CASH DEPOSITS AND INVESTMENTS (cont.)**

#### FAIR VALUE MEASUREMENTS

The Authority categorizes investments measured at fair value within the fair value hierarchy established by generally accepted accounting principles. The Authority is required to classify certain assets and liabilities based on the following fair value hierarchy:

- Level 1: Quoted price in active markets for identical assets.
- Level 2: Inputs other than quoted prices included in Level 1 that are observable, either directly or indirectly. Debt securities are priced based on a compilation of primarily observable market information or broker quote in non-active market.

Level 3: Inputs are significant unobservable inputs.

The Authority has no Level 1 or 3 inputs on June 30, 2022.

	Level 2			
Water Fund Investments by fair value:				
U.S. treasury notes U.S. government agencies Commercial paper	\$ 55,845, 43,932, 31,940,	520		
Water Fund Total Investments	131,718,	<u>394</u>		
Sewage Disposal Fund				
Investments by fair value: U.S. treasury notes U.S. government agencies Commercial paper	102,953, 26,201, 68,781,	191		
Sewage Disposal Fund Total Investments	197,936,	<u>111</u>		
Total Investments – Business-type activities	\$ 329,654,	<u>505</u>		

### **NOTE 4 - RESTRICTED ASSETS**

Restricted assets, comprised of cash and investments, are available for debt service on revenue bonds and to provide funds for improvements, enlargements, extensions and construction. In accordance with the provisions of the Master Bond Ordinance and Regional System Leases, the Authority follows a sequential flow of funds in segregated accounts through which revenue receipts are deposited and are maintained at certain levels in satisfaction of all legal requirements.



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# **NOTE 4 – RESTRICTED ASSETS** (cont.)

The following schedules provide, in the order of the flow of funds per the Master Bond Ordinance, the assignment of Water and Sewage Disposal Funds cash and investments between restricted and unrestricted assets based on the source of the monies as of June 30, 2022.

	E1	ındad fram Dav	renue and Other	Funded from Debt Issuance	
		Unrestricted	Restricted	Restricted	Total
Water Fund		·			
Receiving fund	\$	58,356,061 *	\$ -	\$ -	\$ 58,356,061
Operations and maintenance		36,503,245	-	-	36,503,245
Operations and maintenance – legacy					
pension		-	194,425	-	194,425
Senior lien debt service		-	28,520,884	-	28,520,884
Senior lien bond reserve		-	-	101,636,783	101,636,783
Second and junior lien debt service		-	32,625,470	<u>-</u>	32,625,470
Second lien bond reserve		-	-	47,802,189	47,802,189
Legacy pension obligation		-	374,283	-	374,283
Water residential assistance program					
(WRAP)		-	5,272,708	-	5,272,708
Budget stabilization		<u>-</u>	1,913,873	-	1,913,873
Extraordinary repair and replacement		26,197,651	-	-	26,197,651
Improvement and extension – regional		94,497,370			94,497,370
Subtotal – Reserves Defined by Ordinance		215,554,327	68,901,643	149,438,972	433,894,942
Less: Funded by surety (noncash)		<u>-</u>		(144,345,270)	(144,345,270)
Total – Reserves Defined by Ordinance					
(net of surety coverage)		215,554,327	68,901,643	5,093,702	289,549,672
Cash held for the benefit of DWSD		<u>-</u>	11,371,285	_	11,371,285
Construction retainage and deposits		_	18,066,228	_	18,066,228
Construction fund		23,136,552			23,136,552
Tatal Ocale Ocale Emission to and					
Total Cash, Cash Equivalents and	φ	220 600 070	¢ 00 330 456	¢ 5,000,700	ф 040 400 <del>7</del> 07
Investments Water Fund	Ф	238,690,879	\$ 98,339,156	\$ 5,093,702	\$ 342,123,737

<sup>\*</sup>Balance for two months required transfers

Surety coverage includes series specific policies; therefore, this represents the lesser of the maximum amount of the policy or amount of reserve requirement allocated to the specific series covered by such policy.



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# NOTE 4 - RESTRICTED ASSETS (cont.)

		Funded from Revenue and Other			Funded from Debt Issuance		Takal
0 5 15 1		Inrestricted		Restricted	Restricted	_	Total
Sewage Disposal Fund	_					_	
Receiving fund	\$	90,384,914*	* \$	-	\$ -	\$	90,384,914
Operations and maintenance		41,582,851		-	-		41,582,851
Operations and maintenance – legacy							
pension		-		348,391	-		348,391
Senior lien debt service		-		45,370,355	-		45,370,355
Senior lien bond reserve		-		-	111,010,076		111,010,076
Second and junior lien debt service		-		57,602,462	-		57,602,462
Second lien bond reserve		-		-	48,722,008		48,722,008
Legacy pension obligation		-		522,310	-		522,310
Water residential assistance program							
(WRAP)		-		7,045,715	-		7,045,715
Budget stabilization		-		5,256,209	-		5,256,209
Extraordinary repair and							
replacement		41,908,281		-	-		41,908,281
Improvement and extension							
– regional		104,295,207		<u>-</u>			104,295,207
Subtotal – Reserves Defined by							
Ordinance		278,171,253	1	16,145,442	159,732,084		554,048,779
Less: Funded by surety (noncash)		-		-	(138,358,380)		(138, 358, 380)
Total – Reserves Defined by Ordinance							
(net of surety coverage)		278,171,253	1	16,145,442	21,373,704		415,690,399
(not or surety severage)		2.0,,200		,,	21,010,101		1.0,000,000
Cash held for the benefit of DWSD		_		9,098,348	-		9,098,348
Construction retainage				7,773,259			7,773,259
Construction funds		16,002,377		- ,	-		16,002,377
		,				-	. 0,002,0
Total Cash, Cash Equivalents and							
Investments Sewage Disposal Fund		294,173,630	1	33,017,049	21,373,704		448,564,383
seamonto comago Dioposar i una				00,017,040	21,010,104	_	,
Total Cash, Cash Equivalents and							
Investments –Business-type Activities	\$	532 864 509	\$ 2	31 356 205	\$ 26,467,406	\$	790,688,120
my continente Daoine co-type Activities	Ψ	552,554,553	ΨΖ	.51,555,255	Ψ 20,701,700	Ψ	700,000,120

<sup>\*</sup>Balance for two months required transfers

Surety coverage includes series specific policies; therefore, this represents the lesser of the maximum amount of the policy or amount of reserve requirement allocated to the specific series covered by such policy.



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# **NOTE 4 – RESTRICTED ASSETS** (cont.)

A reconciliation of restricted assets to restricted net position is as follows:

	Water Fund					Total Business-type Activities
Restricted assets from schedule above: From revenue and other From debt issuance Amounts payable to liabilities and debt	\$	98,339,156 5,093,702 (66,500,105)	\$	133,017,049 21,373,704 (55,590,430)	\$	231,356,205 26,467,406 (122,090,535)
Restricted Net Position	\$	36,932,753	\$	98,800,323	\$	135,733,076
Restricted net position for: Debt service Payment assistance program	\$	31,660,045 5,272,708	\$	91,754,608 7,045,715	\$	123,414,653 12,318,423
Total Restricted Net Position	\$	36,932,753	\$	98,800,323	\$	135,733,076

The following summary reconciles the above cash and investment balances with the balances per the Statement of Net Position. The allocation of restricted balances to current and noncurrent categories is not intended to directly align with the funding source allocation included in the schedule.

	Unrestricted	Restricted Current	Restricted Noncurrent	Total
Water Fund				
Cash and cash equivalents	\$ 147,191,020	\$ 49,069,747	\$ 2,773,291	\$ 199,034,058
Cash held for the benefit of DWSD	-	11,371,285	-	11,371,285
Investments	91,499,859	30,711,544	9,506,991	 131,718,394
Total Water Fund	238,690,879	91,152,576	12,280,282	 342,123,737
Sewage Disposal Fund				
Cash and cash equivalents	200,464,397	38,574,227	2,491,300	241,529,924
Cash held for the benefit of DWSD	-	9,098,348	-	9,098,348
Investments	93,709,233	73,042,550	31,184,328	197,936,111
Total Sewage Disposal Fund	294,173,630	120,715,125	33,675,628	 448,564,383
Total Business-type Activities	\$ 532,864,509	\$ 211,867,701	\$ 45,955,910	\$ 790,688,120



# NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

## NOTE 5 - RECEIVABLES, NET

The following is a summary of the net receivables as of June 30, 2022:

	Sewage Water Fund Disposal Fund					Total
Receivables, net: Billed	<u> </u>	54,169,640	\$	64,722,773	\$	118,892,413
Unbilled Other	\$	30,349,758 295,791	Φ	24,045,449 996,875	Φ	54,395,207 1,292,666
Subtotal		84,815,189		89,765,097		174,580,286
Allowance for doubtful accounts		(13,917,234)		(42,906,498)		(56,823,732)
Total Receivables, net	<u>\$</u>	70,897,955	\$	46,858,599	\$	117,756,554

#### **NOTE 6 - DUE FROM OTHER GOVERNMENTS**

Due from other governments in the statement of net position are as follows:

	Water Fund		Dis	Sewage sposal Fund
DWSD-Billed shared services DWSD-Unbilled shared services DWSD-Accrued interest on obligation receivable DWSD-Intergovernmental agreement and other State of Michigan FEMA	\$	14,707,170 (4,388,634) 221,885 - 705,767	\$	884,783 - 2,774 618,967 701,748
Total Due From Other Governments	\$	11,246,188	\$	2,208,272

## NOTE 7 - DUE TO AND DUE FROM OTHER FUNDS

Interfund balances result from the time lag between the dates the interfund reimbursements occur and the payment between the funds are made. Interfund balances for the year ended June 30, 2022 consisted of the following:

	fro	Water und - Due om Sewage sposal Fund	Sewage Disposal Fund - Due from Water Fund		Total Due To		
Water Fund - Due to Sewage Disposal Fund Sewage Disposal Fund - Due to Water Fund	\$	2,328,086	\$ -	. {	\$ - 2,328,086		
Total Due From	\$	2,328,086	\$ -	. (	\$ 2,328,086		



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

## NOTE 8 - CONTRACTUAL OBLIGATION RECEIVABLE

As part of the regional system lease transaction, in which GLWA leased the regional water and sewage disposal system from the City of Detroit, all DWSD revenue bonds outstanding as of December 31, 2015, including those purchased by the Michigan Finance Authority under its state revolving loan program, were assumed by GLWA with the consent of bondholders. The total bonds assumed by GLWA on January 1, 2016 totaled \$2,313,683,761 for the Water Fund and \$3,291,282,050 for the Sewage Disposal Fund.

Per the lease agreements, the WSSA and the MBO, the Detroit retail class continues to pay its common-to-all share of debt service revenue requirements and its allocated share of debt service revenue requirements associated with improvements to the local water and sewage disposal systems. Payments on the debt service incurred by GLWA on the outstanding revenue bonds assumed as of December 31, 2015 are to be allocated using an agreed-upon percentage of total debt service associated with bond-financed local improvements over the life of such bonds, though the bonds themselves continue to be secured by the net revenue of GLWA, and the revenues of the Detroit retail class. The MOU dated June 27, 2018 defines an agreed upon allocation and amortization schedule. This allocated debt is referred to as "Bifurcated debt" in the table below. Any additional debt issued by GLWA on behalf of the local system is also included in the obligation receivable. DWSD is billed monthly for the debt requirements on a debt set-aside basis so the funds are available when the associated debt payment is due.

Changes in obligation receivable for the year ended June 30, 2022 were as follows:

	Beginning Balance	Increase	Decrease	Debt Forgiveness	Ending Balance	Due Within One Year
Water Fund						
Obligation Receivable Bifurcated debt New money bonds State revolving funds	\$ 383,840,900 136,320,000 28,885,586	\$ - 18,043,834	\$ (15,168,000) - (652,056)	\$ - (2,518,000)	\$ 368,672,900 136,320,000 43,759,364	\$ 15,890,000 - 1,468,850
Total Obligation Receivable	549,046,486	18,043,834	(15,820,056)	(2,518,000)	548,752,264	17,358,850
Deferred amounts for: Unamortized premiums	19,605,606		(738,660)		18,866,946	767,171
Total Water Fund	568,652,092	18,043,834	(16,558,716)	(2,518,000)	567,619,210	18,126,021
Sewage Disposal Fund						
Obligation Receivable Bifurcated debt New money bonds State revolving funds	311,583,900 78,810,000	- - 1,288,152	(12,779,900) (1,465,000)	- - (808,000)	298,804,000 77,345,000 480,152	13,333,300 1,530,000 132,000
Total Obligation Receivable	390,393,900	1,288,152	(14,244,900)	(808,000)	376,629,152	14,995,300
Deferred amounts for: Unamortized premiums	8,961,727		(392,284)		8,569,443	408,374
Total Sewage Disposal Fund	399,355,627	1,288,152	(14,637,184)	(808,000)	385,198,595	15,403,674
Total Business-type Activities	\$ 968,007,719	\$ 19,331,986	\$ (31,195,900)	\$ (3,326,000)	\$ 952,817,805	\$ 33,529,695



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# NOTE 8 - CONTRACTUAL OBLIGATION RECEIVABLE (cont.)

The current obligation receivable payment schedule is as follows:

	Year Ended June 30	<u></u>	Principal	Interest		Total
Water Fund						
	2023	\$	17,358,850 \$	25,993,471	\$	43,352,321
	2024	•	19,811,500	25,265,471	•	45,076,971
	2025		21,209,050	24,389,351		45,598,401
	2026		22,163,300	23,467,041		45,630,341
	2027		23,171,000	22,502,129		45,673,129
	2028 - 2032		130,230,719	96,486,253		226,716,972
	2033 - 2037		162,851,100	64,883,885		227,734,985
	2038 - 2042		67,851,279	30,037,327		97,888,606
	2043 - 2047		72,100,399	12,247,416		84,347,815
	2048 - 2050		12,005,067	859,014		12,864,081
				· · · · · · · · · · · · · · · · · · ·	-	, ,
Total Water Fund			548,752,264	326,131,358		874,883,622
Sewage Disp	osal Fund					
	2023		14,995,300	17,352,206		32,347,506
	2024		15,635,600	16,734,563		32,370,163
	2025		16,317,900	16,075,013		32,392,913
	2026		16,964,552	15,387,332		32,351,884
	2027		17,637,000	14,670,600		32,307,600
	2028 - 2032		100,526,900	61,457,150		161,984,050
	2033 - 2037		124,685,200	38,176,750		162,861,950
	2038 - 2042		42,561,700	12,743,650		55,305,350
	2043 - 2047		22,180,000	4,716,250		26,896,250
	2048 - 2049		5,125,000	256,250		5,381,250
Total Sewage	Disposal Fund		376,629,152	197,569,764		574,198,916
Total Busines	s-tvpe					
Activities	) I <sup>-</sup> -	\$	925,381,416 \$	523,701,122	\$	1,449,082,538



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# NOTE 9 - SHORTFALL RECEIVABLE - DWSD

Under the terms of the WSSA and the 2018 MOU, if DWSD experiences a cumulative negative variance of more than two percent (2%) of the total budget for either local system (a budget shortfall) from its adopted budget, DWSD, as the agent of GLWA, shall, within thirty (30) days thereafter, schedule a meeting of the Reconciliation Committee to discuss a remedy for the shortfall.

In accordance with the 2018 MOU, budget shortfalls not cured by the end of the fiscal year following the year in which they arise shall be repaid in full, in installments, over a period not to exceed the next three fiscal years, plus a surcharge calculated as provided below. The surcharge factor on the portion of the budget shortfall for the Sewage Disposal Fund, which remains unpaid, shall be based on the three-year U.S. Treasury note rate plus 150 basis points. The 2018 budget shortfall was paid off during the year. The surcharge factor for the 2018 budget shortfall was 3.209%.

The following is the shortfall receivable activity for the year ended June 30, 2022:

	Beginr Balan	0	Decrease	Ending Balance	Due Within One Year
Sewage Disposal Fund				_	
2018 DWSD budget shortfall	\$ 8,2	96,578 \$	- \$ (8,296,578	<u>3</u> ) <u>\$</u>	\$ -



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# NOTE 10 - CAPITAL ASSETS

Capital assets activity for the year ended June 30, 2022 was as follows:

	Beginning Balance	Additions	Disposals	Transfers	Ending Balance
Water Fund					
Nondepreciable and					
nonamortizable capital assets					
Land	\$ 34,167,736	\$ -	\$ -	\$ 739,355	\$ 34,907,091
Easements	258,990,205	<u>-</u>	-	148,741	259,138,946
Construction in progress	204,853,029	158,706,458	-	(90,605,427)	272,954,060
Prepaid subscription assets		413,924			413,924
Total Nondepreciable and	400 040 070	450 400 200		(00.747.004)	EC7 444 004
Nonamortizable Capital Assets	498,010,970	159,120,382		(89,717,331)	567,414,021
Depreciated capital assets					
Site improvements	84,054,180	_	_	_	84,054,180
Buildings and structures	592,346,952	_	_	14,829,124	607,176,076
Infrastructure	668,116,959	-	-	-	668,116,959
Machinery and equipment	714,473,237	2,237,151	(6,015)	74,888,207	791,592,580
Vehicles	5,069,512	352,904	(141,287)	-	5,281,129
Leasehold improvements	8,407,125				8,407,125
Total Depreciable Assets	2,072,467,965	2,590,055	(147,302)	89,717,331	2,164,628,049
Less: Accumulated depreciation					
Site improvements	(47,605,667)	(7,033,332)	-	-	(54,638,999)
Buildings and structures	(171,661,110)	(25,592,114)	-	-	(197,253,224)
Infrastructure	(209,383,033)	(38,764,658)	-	-	(248,147,691)
Machinery and equipment	(316,813,627)	(50,659,410)	492	-	(367,472,545)
Vehicles	(1,839,523)	(590,716)	140,953	-	(2,289,286)
Leasehold improvements	(610,918)	(555,797)			(1,166,715)
Total Accumulated Depreciation	(747,913,878)	(123,196,027)	141,445	-	(870,968,460)
Total Depreciated Capital					
Assets, Net	1,324,554,087	(120,605,972)	(5,857)	89,717,331	1,293,659,589
Intermible count was water					
Intangible asset – raw water rights	106,999,919				106,999,919
Less: Accumulated amortization	(12,780,546)	(3,566,664)	-	- -	(16,347,210)
Total Intangible Assets, Net	94,219,373	(3,566,664)			90,652,709
Water Fund Net Capital Assets	\$1,916,784,430	\$ 34,947,746	\$ (5,857)	\$ -	\$1,951,726,319



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# NOTE 10 - CAPITAL ASSETS (cont.)

	Beginning Balance	Additions	Disposals	Transfers	Ending Balance
Sewage Disposal Fund Nondepreciable and nonamortizable capital assets					
Land Easements	\$ 28,142,843 96,211,323	\$ -	\$ -	\$ 251,764 2,098,190	\$ 28,394,607 98,309,513
Construction in progress Prepaid subscription assets	191,120,285	67,449,150 721,724	-	(65,468,972)	193,100,463 721,724
Total Nondepreciable and Nonamortizable Capital Assets	315,474,451	68,170,874		(63,119,018)	320,526,307
Depreciated capital assets	E4 000 E0E	75 200		770 075	FO FOC 400
Site improvements Buildings and structures Infrastructure	51,660,505 1,156,499,808 619,819,263	75,308 146,437 -	- -	770,375 10,802,868 5,888,382	52,506,188 1,167,449,113 625,707,645
Machinery and equipment Vehicles	1,311,290,921 5,953,693	11,414,594 1,134,531	(779,079) (170,319)	45,030,675	1,366,957,111 6,917,905
Leasehold improvements	3,137,248			626,718	3,763,966
Total Depreciable Assets	3,148,361,438	12,770,870	(949,398)	63,119,018	3,223,301,928
Less: Accumulated depreciation Site improvements Buildings and structures Infrastructure Machinery and equipment Vehicles	(29,293,587) (254,566,401) (75,607,745) (564,825,107) (2,106,753)	(3,215,117) (37,353,917) (13,740,637) (102,709,676) (775,741)	- - - 207,755 170,319	- - - -	(32,508,704) (291,920,318) (89,348,382) (667,327,028) (2,712,175)
Leasehold improvements	(489,185)	(218,541)	170,319	<u> </u>	(707,726)
Total Accumulated Depreciation	(926,888,778)	(158,013,629)	378,074		(1,084,524,333)
Total Depreciated Capital Assets Net	2,221,472,660	(145,242,759)	(571,324)	63,119,018	2,138,777,595
Intangible asset – right to use asset Less: Accumulated amortization	4,543,607 (109,926)	- (439,704)	-	- -	4,543,607 (549,630)
Total Intangible Assets, Net	4,433,681	(439,704)		_	3,993,977
Sewage Disposal Fund Net Capital Assets	2,541,380,792	(77,511,589)	(571,324)	\$ -	2,463,297,879
Business-type Activities Capital Assets, Net	\$4,458,165,222	<u>\$ (42,563,843)</u>	\$ (577,181)	\$	\$4,415,024,198

#### ASSET IMPAIRMENT

Capital assets are evaluated annually to determine if any asset impairments exist, defined as a significant, unexpected decline in the service utility of a capital asset. There were no recorded impairments for the Authority for the year ended June 30, 2022.



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

## NOTE 10 - CAPITAL ASSETS (cont.)

#### RAW WATER RIGHTS ASSET

Effective December 1, 2017, the Authority, the City of Flint, Karegnondi Water Authority (KWA), Genesee County Drain Commission (GCDC) and State of Michigan entered into a long-term partnership agreement to satisfy a number of critical water service needs across the region. Key provisions of a master agreement includes: 1) a 30-year water service contract with the City of Flint that establishes the Authority as the long-term water source for the City of Flint and credits the City of Flint for its debt service payment obligations on existing KWA bonds for the building of its raw water intake and supply line; 2) a license to the Authority of the 72-inch line serving the City of Flint; and 3) a 30-year contract for reciprocal, emergency water services between the Authority and GCDC.

The 30-year water service contract with the City of Flint includes a license to raw water rights on 17.46 MGD of the 18 MGD purchased by Flint as part of KWA bond obligation. These license rights constitute an intangible asset under governmental accounting standards. Therefore, the Authority has recorded an intangible asset and purchase obligation liability of approximately \$107 million associated with this agreement in the accompanying financial statements. The Authority is amortizing the intangible asset over 30 years. As the City of Flint satisfies its monthly bond payment obligations to KWA, the Authority credits Flint's water invoice for that payment and reduces the Authority's purchase obligation. This process will continue each year over the 30-year life of the asset.

#### **PREPAID SUBSCRIPTION ASSETS**

The Authority has entered into two contracts for Subscription-Based Information Technology Arrangements (SBITA) that will be recorded under GASB 96. The SBITA's are in the initial implementation stage, therefore costs associated with these SBITA's have been recorded as prepaid subscription assets. Once the subscription assets are placed in service, the costs incurred and any future subscription liability (present value of expected future payments) will be recognized as an intangible right-to-use subscription asset and amortized over the subscription term.

#### **NOTE 11 - ACCRUED LIABILITIES**

As described in Note 1, other accrued liabilities in the statement of net position are as follows:

	Water Fund			Disposal Fund		
Cash held for the benefit of DWSD Advanced insurance proceeds Advanced billings Customer deposit	\$	11,371,285 - 74,649 3,815,493	\$	9,098,348 644,858 - -		
Total Other Accrued Liabilities	\$	15,261,427	\$	9,743,206		



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# **NOTE 12 – Due to Other Governments**

Due to other governments, which consists entirely of amounts due to the DWSD, in the statement of net position is as follows:

	 Water Fund	 Sewage Disposal Fund
Shared services State revolving fund loan proceeds due to DWSD Green infrastructure	\$ 11,418,104 6,192,497	\$ 3,750,000
Total Due to Other Governments	\$ 17,610,601	\$ 3,750,000

# NOTE 13 - LONG-TERM DEBT

Changes in long-term debt for the year ended June 30, 2022 were as follows:

	Beginning Balance	Increase	Decrease	Debt Forgiveness	Ending Balance	Due Within One Year
Water Fund						
Bonds and Loans Revenue bonds Notes from direct borrowings and direct placements -	\$2,192,510,000	\$ -	\$ (63,620,000)	\$ -	\$2,128,890,000	\$20,165,000
State revolving loan	71,259,601	43,685,917	(2,998,056)	(2,518,000)	109,429,462	5,096,750
Total Bonds and Loans	2,263,769,601	43,685,917	(66,618,056)	(2,518,000)	2,238,319,462	25,261,750
Deferred amounts for: Unamortized premiums Unamortized discounts	183,719,225 (7,596,752)		(16,248,084) 1,135,690		167,471,141 (6,461,062)	15,727,022 (897,517)
Total Bonds and Loans, Net	2,439,892,074	43,685,917	(81,730,450)	(2,518,000)	2,399,329,541	40,091,255
Other Debt Raw water rights obligation BC Note obligation	98,095,302 16,736,535		(2,734,246) (194,242)		95,361,056 16,542,293	2,845,282 203,954
Total Water Fund Debt	\$2,554,723,911	\$ 43,685,917	\$ (84,658,938)	\$(2,518,000)	\$2,511,232,890	\$43,140,491



# NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# NOTE 13 - LONG-TERM DEBT (cont.)

	Beginning Balance	0 0			Debt  Decrease Forgiveness Ending Balance				
Sewage Disposal Fund Bonds and Loans Revenue bonds Capital appreciation bonds Notes from direct borrowings and direct	\$ 2,515,455,000 5,675,000	\$	- -	(75,710,000) (5,675,000)	\$ -	\$2,439,745,000	\$ 35,665,000		
placements-State revolving loan	416,767,850		10,503,366	(46,815,000)	(808,000)	379,648,216	47,936,430		
Total Bonds and Loans	2,937,897,850		10,503,366	(128,200,000)	(808,000)	2,819,393,216	83,601,430		
Discount on capital appreciation bonds	(170,931)		-	170,931	-	-	-		
Deferred amounts for: Unamortized premiums Unamortized discounts	130,678,706 (68,491,307)		 	(12,720,139) 9,174,925		117,958,567 (59,316,382)	12,504,194 (8,793,079)		
Total Bonds and Loans, Net	2,999,914,318		10,503,366	(131,574,283)	(808,000)	2,878,035,401	87,312,545		
Other Debt BC Note obligation	37,645,780			(436,911)		37,208,869	458,756		
Total Sewage Disposal Fund Debt	3,037,560,098		10,503,366	(132,011,194)	(808,000)	2,915,244,270	87,771,301		
Total Business-type Activities	\$ 5,592,284,009	\$	54,189,283	\$ (216,670,132)	\$ (3,326,000)	\$ 5,426,477,160	\$ 130,911,792		



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# NOTE 13 - LONG-TERM DEBT (cont.)

As of June 30, 2022, aggregate debt service requirements of the Authority's bonds and loans (fixed and variable-rate) were as follows. These amounts assume that current interest rates on variable-rate bonds will remain the same for their respective terms. As these rates vary, interest payments on variable-rate bonds will vary.

		Bonds				Notes from Direct Borrowings and Direct Placements					
,	Year Ended										
	June 30		Principal	_	Interest		Principal		Interest		Total
Water Fund											
	2023*	\$	20,165,000	\$	83,194,422	\$	5,096,750	\$	2,217,281	\$	110,673,453
	2024		76,930,000		96,484,833		5,565,000		2,131,857		181,111,690
	2025		82,590,000		92,746,039		11,008,950		1,965,336		188,310,325
	2026		86,340,000		88,879,460		9,594,223		1,760,803		186,574,486
	2027		90,325,000		84,650,908		6,927,820		1,594,236		183,497,964
	2028-2032		527,010,000		351,936,257		23,017,928		6,430,861		908,395,046
	2033-2037		632,475,000		209,310,447		22,368,516		4,134,090		868,288,053
	2038-2042		322,955,000		102,464,151		17,021,934		1,906,071		444,347,156
	2043-2047		273,890,000		39,623,500		7,793,699		606,294		321,913,493
	2048-2050		16,210,000	_	1,242,000	_	1,034,642		25,904	_	18,512,546
Total Water Fund			2,128,890,000	_	1,150,532,017	_	109,429,462		22,772,733	_	3,411,624,212
Sewage Disposal	Fund										
• •	2023*		35.665.000		81.137.536		47.936.430		8.210.746		172,949,712
	2024		83.475.000		96.974.031		40.360.000		7.188.734		227.997.765
	2025		98.650.000		92.838.983		41.265.870		6.271.040		239,025,893
	2026		101.895.000		88,197,970		27,373,152		5,471,828		222,937,950
	2027		111,945,000		83,397,094		24,805,000		4,917,078		225,064,172
	2028 - 2032		672,355,000		338,564,893		108,248,511		16,814,924		1,135,983,328
	2033 - 2037		831,540,000		182,552,944		71,643,260		6,493,521		1,092,229,725
	2038 - 2042		399,565,000		44,946,983		16,965,993		731,375		462,209,351
	2043 - 2047		94,650,000		9,172,617		1,050,000		10,500		104,883,117
:	2048 - 2049	_	10,005,000		506,375			_	-		10,511,375
Total Sewage Disp	osal Fund		2,439,745,000		1,018,289,426	_	379,648,216		56,109,746		3,893,792,388
Total Business-type	e Activities	\$ 4	4,568,635,000	\$	2,168,821,443	\$	489,077,678	\$	78,882,479	\$	7,305,416,600

<sup>\*</sup> For bonds issued through the Michigan Finance Authority (MFA) in 2014 and 2015, the Authority is required to make payment on these obligations to the MFA depository account five business days prior to the actual due date of the bond principal and interest payments. Therefore, the payments for principal and interest due on July 1, 2022 are not included in the debt service requirements amounts above as they were paid on June 24, 2022.



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# NOTE 13 - LONG-TERM DEBT (cont.)

## **REVENUE BONDS**

Net revenues of the Authority are pledged to repayment of bonds; following are the revenue bonds payable at June 30, 2022:

	Bond	Original Issue	Range of	Maturity		Outstanding Ending	
Issue	Date	Amount	Interest Rates	Dates	Balance		Callable at Par
Water Fund							
Series 2003A	1/30/03	\$ 234,805,000	5.00%	7/01/34	\$	100,000\$	100,000
Series 2003B	1/30/03	172,945,000	5.00%	7/01/34		100,000	100,000
Series 2005B	5/14/08	194,900,000	5.25%	7/01/35		100,000	100,000
Series 2006A	8/16/06	280,000,000	5.00%	7/01/34		100,000	100,000
Series 2006B	4/01/09	120,000,000	6.25%	7/01/36		100,000	100,000
Series 2014D-1	9/04/14	206,540,000	5.00%	7/01/23-37		71,225,000	44,190,000
Series 2014D-2	9/04/14	188,455,000	5.00%	7/01/23-28		188,455,000	136,925,000
Series 2014D-4	9/04/14	307,645,000	5.00%	7/01/29-34		209,360,000	209,360,000
Series 2014D-6	9/04/14	65,425,000	5.00%	7/01/23-36		49,490,000	43,690,000
Series 2015D-1	12/15/15	89,430,000	5.00%	7/01/27-35		69,275,000	69,275,000
Series 2015D-2	12/15/15	37,235,000	5.00%	7/01/34		37,235,000	37,235,000
Series 2016A	10/27/16	88,000,000	5.00%	7/01/22-46		87,995,000	87,970,000
Series 2016B	10/27/16	163,830,000	5.00%	7/01/22-46		163,825,000	163,800,000
Series 2016C	10/27/16	443,930,000	5.00-5.25%	7/01/22-35		443,930,000	367,685,000
Series 2016D	10/27/16	222,045,000	4.00-5.00%	7/01/24-36		222,045,000	217,380,000
Series 2018A	10/3/18	155,595,000	5.00%	7/01/22-29		122,460,000	-
Series 2020A	5/12/20	42,445,000	5.00%	7/1/24-49		42,445,000	35,685,000
Series 2020B	5/12/20	43,135,000	5.00%	7/1/24-49		43,135,000	36,265,000
Series 2020C**	5/12/20	377,515,000	1.684-3.473%	7/1/22-41		377,515,000	317,530,000

Total Water Fund Revenue Bonds Payable

\$ 2,128,890,000



# NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

NOTE 13 - LONG-TERM DEBT (cont.)

Issue	Bond Date	Original Issue Amount	Range of Interest Rates	Maturity Dates	(	Outstanding Ending Balance	Callal	ble at Par
Sewage Disposal Fu	nd							
Series 2001B	9/15/01	110,550,000	5.50%	7/01/23-29	\$	78,895,000	\$	-
Series 2003B	6/17/09	150,000,000	7.50%	7/01/33		100,000		100,000
Series 2004A	2/12/04	101,435,000	5.25%	7/01/22-24		12,640,000		-
Series 2005A	3/17/05	273,355,000	4.50%	7/01/35		100,000		100,000
Series 2005B	3/17/05	40,215,000	5.50%	7/01/22		6,695,000		-
Series 2005C	4/05/05	63,160,000	5.00%	7/01/25		100,000		100,000
Series 2006B	8/10/06	250,000,000	5.00%	7/01/36		100,000		100,000
Series 2006D	12/14/06	370,000,000	Variable(*)	7/01/26-32		239,475,000	23	39,475,000
Series 2012A	6/26/12	659,780,000	5.00%	7/01/21-23		32,105,000		17,985,000
Series 2014C-3	9/04/14	446,170,000	5.00%	7/01/23-33		381,800,000	30	03,570.000
Series 2014C-6	9/04/14	143,880,000	5.00%	7/01/32-33		88,900,000	8	38,900.000
Series 2014C-7	9/04/14	76,715,000	5.00%	7/01/23-36		50,000,000	4	44,065,000
Series 2015C	12/15/15	197,660,000	5.00%	7/01/26-35		197,160,000	19	97,160,000
Series 2016B	10/27/16	126,105,000	5.00%	7/01/24-34		126,105,000	11	11,660,000
Series 2016C	10/27/16	295,190,000	4.00-5.00%	7/01/27-36		295,190,000	29	95,190,000
Series 2018A	10/03/18	81,595,000	5.00%	7/1/22-48		78,810,000	6	67,040,000
Series 2018B	10/03/18	131,690,000	5.00%	7/1/24-49		131,690,000		-
Series 2018C**	10/03/18	44,180,000	3.4-3.613%	7/1/22-24		37,350,000		-
Series 2020A**	6/16/20	594,930,000	1.503-3.506%	7/01/23-44		594,930,000	10	08,540,000
Series 2020B**	6/16/20	92,525,000	1.492-3.606%	7/1/22-44		87,600,000	,	15,325,000
Total Sewage Disposa	al Fund Reven	ue Bonds Payabl	e			2,439,745,000		
Total Business-type A	ctivities				\$ 4	4,568,635,000		

<sup>\*</sup> Interest rates are reset quarterly based upon a formula specified in the bond using the three-month LIBOR rate.

<sup>\*\*</sup> Taxable bond



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

## NOTE 13 - LONG-TERM DEBT (cont.)

#### Refunded Debt - Sewage Disposal Fund

In prior years, the Authority's Sewage Disposal Fund defeased certain bonds by placing the proceeds of new bonds in irrevocable trusts for the purpose of generating resources for all future debt service payments on the refunded debt. As a result, the refunded bonds are considered to be defeased and the trust fund assets and related liabilities have been removed from the statement of net position. At June 30, 2022, the balance of the bonds considered to be defeased is \$570,460,000. These defeased bonds include the following revenue bonds: \$419,810,000 Series 2012A, \$123,200,000 Series 2014C-1 and \$27,450,000 2014C-2. As a result, the refunded bonds are considered to be defeased and the trust fund assets and related liabilities have been removed from the statement of net position. These bonds were called July 1, 2022.

#### Arbitrage

Certain bonds are subject to arbitrage rebate requirements in accordance with regulations issued by the U.S. Treasury Department. The requirements generally stipulate that earnings from the investment of the tax-exempt bond proceeds that exceeds related interest costs on the bonds must be remitted to the Federal government on every fifth anniversary of each bond issue. The Authority did not have an arbitrage rebate liability as of June 30, 2022.

#### STATE REVOLVING FUND LOANS

The Authority participates in direct borrowings through the State of Michigan Drinking Water State Revolving Fund (DWSRF) to finance qualified water supply system projects and the Clean Water State Revolving Fund (CWSRF) to finance qualified sewage disposal system projects. As GLWA draws additional amounts, the outstanding principal amounts of such loans will correspondingly increase. All loans are callable under terms specified in the loan agreements.

The Authority received direct borrowing loans from the State of Michigan Revolving Loan Fund during the year ended June 30, 2022 for the Water Fund totaling \$43,685,917 of which \$2,518,000 has been forgiven, and the Sewage Disposal Fund received \$10,503,366 of which \$808,000 has been forgiven. The water loans forgiven and \$18,043,834 of the proceeds of the Water Fund loans were a pass through to DWSD, the subrecipient of the loans. The remaining proceeds of the Water Fund loans were used to pay costs of acquiring, constructing extensions, and making certain repairs and improvements to the regional water system. The sewer loans forgiven and \$1,288,152 of the Sewage Disposal Fund loans were a pass through to DWSD the subrecipient of the loans. The remaining proceeds of the Sewage Disposal Fund loans were used to pay costs of acquiring, constructing extensions, and making certain repairs and improvements to the regional sewage disposal system. At June 30, 2022, the Authority has not fully drawn the amounts of authorized State of Michigan revolving fund bond issues. The amount of undrawn is \$142,864,641 for the Water Fund and \$64,624,532 for the Sewage Disposal Fund. Of these undrawn amounts, \$25,081,003 for the Water Fund and \$9,633,098 of the Sewage Disposal Fund, are for pass through loans to DWSD.

Net revenues of the Authority are pledged for repayment of the loans.



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# NOTE 13 - LONG-TERM DEBT (cont.)

The following is a schedule of the state revolving loans payable at June 30, 2022:

Issue	Bond Date	Amount Issued	Range of Interest Rates	Maturity Dates	 outstanding Ending Balance
Water Fund					
Series 2005 SRF-1	9/22/05	\$ 13,805,164	2.125%	10/01/22-26	\$ 3,875,164
Series 2005 SRF-2	9/22/05	8,891,730	2.125%	10/01/22-26	2,446,730
Series 2006 SRF-1	9/21/06	5,180,926	2.125%	10/01/22-26	1,445,926
Series 2008 SRF-1	9/29/08	2,590,941	2.50%	10/01/22-28	750,941
Series 2016 SRF-1	9/16/16	8,273,168	2.50%	4/01/23-48	7,463,168
Series 2016 SRF-2	9/16/16	3,393,543	2.50%	4/01/23-48	3,053,543
Series 2017 SRF-1	6/23/17	5,807,931	2.50%	10/1/22-48	5,347,931
Series 2019 SRF-1	6/7/19	8,330,000	2.00%	10/1/22-40	7,985,000
Series 2019 SRF-2	8/30/19	29,950,000	2.00%	4/1/23-41	27,115,556
Series 2019 SRF-3	8/30/19	11,788,056	2.00%	10/1/22-43	7,742,932
Series 2020 SRF-1	7/31/20	20,538,700	2.00%	4/1/23-47	15,869,467
Series 2020 SRF-2	8/28/20	9,000,000	2.00%	10/1/23-32	3,623,516
Series 2020 SRF-3	8/28/20	8,960,000	2.00%	4/1/23-38	6,753,599
Series 2020 SRF-4	9/30/20	12,153,050	2.00%	4/1/23-38	5,325,829
Series 2021 SRF-1	6/21/21	11,940,000	1.875%	10/1/24-27	1,774,468
Series 2021 SRF-2	8/30/21	104,725,000	1.875%	10/1/24-25	7,154,223
Series 2021 SRF-3	8/30/21	11,528,950	1.875%	10/1/24-27	 1,701,469
Total Water Fund State Rev	 109,429,462				



# NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# NOTE 13 - LONG-TERM DEBT (cont.)

lssue	Bond Date	Amount Issued	Range of Interest Rates	Maturity Dates		utstanding Ending Balance
Sewage Disposal Fund						
Series 1999 SRF-2	9/30/99	\$ 46,000,000	2.50%	10/01/22	\$	2,885,000
Series 2000 SRF-1	3/30/00	44,197,995	2.50%	10/01/22	*	2,667,995
Series 2000 SRF-2	9/28/00	64,401,066	2.50%	10/01/22		4,016,066
Series 2001 SRF-1	6/28/01	82,200,000	2.50%	10/01/22-24		15,095,000
Series 2001-SRF-2	12/20/01	59,850,000	2.50%	10/01/22-24		10,990,000
Series 2002 SRF-1	6/27/02	18,985,000	2.50%	4/01/23		1,190,000
Series 2002 SRF-2	6/27/02	1,545,369	2.50%	4/01/23		95,369
Series 2002 SRF-3	12/19/02	31,549,466	2.50%	10/01/22-24		5,329,466
Series 2003 SRF-1	6/26/03	48,520,000	2.50%	10/01/22-25		11,735,000
Series 2003 SRF-2	9/25/03	25,055,370	2.50%	4/01/23-25		4,565,370
Series 2004 SRF-1	6/24/04	2,910,000	2.125%	10/01/22-24		520,000
Series 2004 SRF-2	6/24/04	18,353,459	2.125%	4/01/23-25		3,263,459
Series 2004 SRF-3	6/24/04	12,722,575	2.125%	4/01/23-25		2,252,575
Series 2007 SRF-1	9/20/07	167,540,598	1.625%	10/01/22-29		73,570,598
Series 2009 SRF-1	4/17/09	13,970,062	2.50%	4/01/23-30		6,215,062
Series 2010 SRF-1	1/22/10	4,214,763	2.50%	4/01/23-31		2,120,763
Series 2012 SRF-1	8/30/12	14,950,000	2.50%	10/01/22-34		10,535,000
Series 2015A SRF	3/20/15	79,500,000	2.50%	4/01/23-36		59,625,000
Series 2015B SRF	3/20/15	27,175,304	2.50%	10/01/22-35		20,005,304
Series 2015D SRF	12/11/15	15,321,478	2.50%	10/01/22-35		11,061,478
Series 2016 SAW-1	5/25/16	10,000,000	2.50%	10/01/22-38		8,800,000
Series 2016 SRF-1	9/16/16	15,463,628	2.50%	4/01/23-38		12,733,628
Series 2016 SRF-2	9/16/16	48,315,683	2.50%	4/01/23-39		42,145,683
Series 2017 SRF-1	6/23/17	33,566,682	2.50%	10/01/22-38		29,746,682
Series 2018 SRF-2	9/14/18	17,510,000	2.00%	10/01/23-42		17,510,000
Series 2020 SRF-1	3/27/20	28,350,000	2.00%	10/1/23-35		16,456,478
Series 2020 SRF-2	9/30/20	3,232,000	2.00%	10/1/22-25		480,152
Series 2021 SRF-1	3/26/21	12,940,000	1.875%	10/1/23-30		4,037,088
Series 2021 SRF-2*	9/24/21	6,881,250	1.875%	-		-
Series 2022 SRF-1*	6/6/22	34,195,000	1.875%	-		<del>-</del>
Total Sewage Disposal Fun Payable	d State Revol	ving Loans				379,648,216
Total Business-type Activitie	es				\$	489,077,678

<sup>\*</sup> Loan has been authorized, no draws on loan as of June 30, 2022.



## NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

## NOTE 13 - LONG-TERM DEBT (cont.)

#### PLEDGES OF FUTURE REVENUE

The Authority has pledged assets to secure the repayment of the revenue bonds and State of Michigan revolving fund loans. The Water System bonds and loans are paid solely from the net revenues of the Water System and the Sewer System bonds and loans are paid solely from the net revenues of the Sewer System. Net revenues are defined in the Great Lakes Water Authority Water and Sewer Master Bond Ordinances as all revenues except those transferred to the Operation and Maintenance funds. These revenues are further defined to include the revenues from the Retail Customers who are serviced under the Water and Sewer Services Agreement with the City of Detroit which are reported in the financial statements of the City of Detroit Water and Sewerage Department. The pledged revenues calculation for the fiscal year ending June 30, 2022 includes revenues reported by the Great Lakes Water Authority and the City of Detroit Water and Sewerage Department as this revenue is pledged for payment of the bonds and loans of the Great Lakes Water Authority.

The general purpose of the Water System debt is to provide funding for various water treatment and transmission capital improvements, refund certain water revenue bonds, pay termination amounts for interest rate swap agreements and fund reserve requirements. The general purpose of the Sewer System bonds is to provide funding for various wastewater treatment and collection activities, capital improvements, refund certain sewage disposal revenue bonds, pay termination amounts for interest rate swap agreements and fund reserve requirements. The term of pledge commitment for the water bonds is through fiscal year 2050 and the sewage disposal bonds is through 2049.

The table below has the pledged revenue coverage as of June 30, 2022:

	_	Water Fund	 Sewage Disposal Fund
Remaining principal and interest requirement	\$	3,411,624,212	\$ 3,893,792,388
Principal and interest funding requirement for the year ending June 30, 2022 (calculated on a debt set aside basis consistent with rate covenant basis for rate determination)	\$	176,589,315	\$ 235,847,946
Pledged revenue for the year ending June 30, 2022	\$	249,723,618	\$ 346,540,998
Pledged revenue collected as a percentage of funding requirement		141%	147%

At the of the issuance of the GLWA financial report, DWSD's audited financial report had not been released. The local system amounts used for the calculation above reflect DWSD's management representation of preliminary financial results for the year ended June 30, 2022.



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

## NOTE 13 - LONG-TERM DEBT (cont.)

#### **DEBT RATINGS**

In March 2020, Standard & Poor's Global Ratings Services affirmed the ratings on the water system senior lien debt of AA- and the water system second lien debt of A+ and assigned a stable outlook. It also upgraded the ratings on the sewage disposal system senior lien debt by one notch to AA- and the sewage disposal system second lien debt by one notch to A+. Both were assigned a stable outlook. Moody's Investor Services upgraded the ratings on the water and sewage disposal system senior lien debt by one notch to A1 and second lien debt by one notch to A2. The ratings outlook for both remained stable. Fitch upgraded the ratings on the water system and sewage disposal system senior lien debt by one notch to A+ and second lien debt by one notch to an A. Both with a stable outlook.

In November 2018, S&P Global Ratings assigned an A+ rating to the Authority's junior lien water system SRF bonds and in March 2020 the junior lien sewage disposal system SRF bonds were upgraded to A+ from an A rating.

See Note 21 for rating agency upgrades received in August 2022.

#### **RAW WATER RIGHTS OBLIGATION**

An obligation has been recorded related to the license of the raw water rights that were part of the 30-year service contract with the City of Flint. This obligation represents the future credits to the City of Flint's water bills as the City of Flint satisfies its monthly bond payment obligations to KWA. See related footnote for the raw water rights intangible asset (Note 10).

The future credits to be issued are detailed below:

	Year Ended June 30	Principal	Interest	Total
Water Fund	00110 00	 1 Tilloipai	 merest	 Total
water rund				
	2023	\$ 2,845,282	\$ 3,806,495	\$ 6,651,777
	2024	2,963,619	3,689,208	6,652,827
	2025	3,085,994	3,567,008	6,653,002
	2026	3,212,750	3,439,803	6,652,553
	2027	3,345,194	3,307,356	6,652,550
	2028 - 2032	18,909,553	14,351,041	33,260,594
	2033 - 2037	23,142,653	10,118,496	33,261,149
	2038 - 2042	27,813,547	4,943,999	32,757,546
	2043 - 2046	 10,042,464	 462,187	 10,504,651
Total Water Fund		\$ 95,361,056	\$ 47,685,593	\$ 143,046,649



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# NOTE 13 - LONG-TERM DEBT (cont.)

#### **BC NOTE OBLIGATION**

Under the terms of the lease agreements with the City, the Authority is required to pay a portion of the City's Financial Recovery Bonds, Series 2014-B and 2014-C allocated to the regional water and sewage disposal systems. The Financial Recovery Bonds, Series 2014-B are federally taxable. The Series 2014-B bonds have two components: B(1) which has a 4.0 percent per annum interest rate and B(2) which has a variable interest rate until the maturity date of April 1, 2044. The bonds were delivered to classes of creditors in satisfaction of: (1) Class 12 OPEB claims the bonds were distributed to the new Voluntary Employee Beneficiary Associations (VEBA) for the general retirees and police and fire retirees; (2) Class 9 Pension Obligation Certificate (POC) claims; and (3) other unsecured bankruptcy claims. GLWA has a contractual obligation to pay a portion of the bonds based on an agreed-upon allocation percentage.

The Financial Recovery Bonds, Series 2014-C were issued with interest at 5.0 percent per annum. The 2014-C bonds were issued as part of the Syncora Settlement and FGIC/POC Settlement in the bankruptcy plan. GLWA has a contractual obligation to pay a portion of the bonds based on an agreed-upon allocation percentage.

In 2018, the governing body of the City of Detroit authorized the use of general funds for the full redemption of the General Obligation Bonds, 2014 Series C, including the amount allocated to the Authority. The 2014 Series C debt was fully redeemed on April 13, 2018. In addition, on December 13, 2018, the City issued Financial Recovery Refunding Bonds to redeem a portion of the 2014 Series B. The Authority will repay the City of Detroit General Fund under the terms of the original debt payment schedules for the 2014 Series B & C General Obligation Bonds, with principal and interest due on June 30 each year.

The following is a schedule of the BC Note obligation for the Financial Recovery Bonds at June 30, 2022:

Bond Issue (GLWA share)		Original Issue Amount (GLWA share)	Range of Interest Rates	Maturity Date	 Outstanding Ending Balance
Water Fund Series 2014-B Series 2014-C	\$	26,540,080 3,829,794	4.00% and variable 5.00%	4/1/44 6/30/27	\$ 15,556,025
Total Water Fund		3,029,194	5.00%	0/30/27	986,268 16,542,293
Sewage Disposal Fund Series 2014-B Series 2014-C		44,233,463 6,382,990	4.00% and variable 5.00%	4/1/44 6/30/27	34,990,439 2,218,430
Total Sewage Disposal Fur	nd				 37,208,869
Total Business-type Activiti	ies				\$ 53,751,162



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# NOTE 13 - LONG-TERM DEBT (cont.)

# **BC NOTE OBLIGATION** (cont.)

As of June 30, 2022, debt service requirements of the BC Note obligation for the Financial Recovery Bonds were as follows:

Year Ended	Dringing			Interest	Total		
June 30		Principal	Interest			Total	
Water Fund							
2023	\$	203,954	\$	671,554	\$	875,508	
2024		214,151		661,357		875,508	
2025		1,002,661		650,649		1,653,310	
2026		1,013,904		608,294		1,622,198	
2027		885,004		565,378		1,450,382	
2028 - 2032		3,889,008		2,333,405		6,222,413	
2033 - 2037		3,889,008		1,975,616		5,864,624	
2038 - 2042		3,889,008		1,166,702		5,055,710	
2043 - 2044		1,555,595		140,004		1,695,599	
Total Water Fund		16,542,293		8,772,959		25,315,252	
Sewage Disposal Fund							
2023		458,756		1,510,539		1,969,295	
2024		481,694		1,487,601		1,969,295	
2025		2,255,301		1,463,516		3,718,817	
2026		2,280,590		1,368,246		3,648,836	
2027		1,990,655		1,271,712		3,262,367	
2028 - 2032		8,747,608		5,248,564		13,996,172	
2033 - 2037		8,747,608		4,443,785		13,191,393	
2038 - 2042		8,747,608		2,624,282		11,371,890	
2043 - 2044		3,499,049		314,914		3,813,963	
Total Sewage Disposal Fund		37,208,869		19,733,159		56,942,028	
Total Business-type Activities	\$	53,751,162	\$	28,506,118	\$	82,257,280	



## NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

## NOTE 13 - LONG-TERM DEBT (cont.)

#### INTEREST EXPENSE

The following represents the amounts recorded as interest expense for the year ended June 30, 2022:

	 Water Fund	D	Sewage Disposal Fund	B 	Total usiness-type Activities
Revenue bonds and loans Regional System Lease Raw water rights obligation BC Note obligation Lease-right to use asset	\$ 103,645,614 17,026,165 3,733,333 681,267	\$	108,637,990 20,809,759 - 1,532,384 129,992	\$	212,283,604 37,835,924 3,733,333 2,213,651 129,992
Total Interest Expense	\$ 125,086,379	\$	131,110,125	\$	256,196,504

# NOTE 14 - REGIONAL SYSTEMS LEASES PAYABLE AND RELATED PREPAID LEASE

On January 1, 2016, the Authority effectuated lease agreements with the City for the regional water and sewage disposal systems for a term of 40 years, to be extended automatically to coincide with the final maturity of any bonds issued to finance improvements to the regional or local sewage disposal systems. The agreements collectively provide for an annual lease payment of \$50 million. Currently, \$22,500,000 is allocated to the Water Fund and \$27,500,000 is allocated to the Sewage Disposal Fund. The lease for the water system provides service to the wholesale customers and the retail water customers of the City up to the point of connection to the local water system facilities of the City. The lease for the sewage disposal system provides service to the wholesale customers and the retail sewage disposal customers of the City up to the point of connection to the local sewage disposal system facilities of the City. In addition, both leases provide that certain other assets including cash and investments held by DWSD as of December 31, 2015 be transferred to GLWA, all revenues of the regional and local water and sewage disposal systems are assigned to GLWA, and that GLWA assumes all DWSD bonded debt and certain other liabilities. The long-term leases are recorded as the present value of all future debt payments.

The regional system leases were recorded under GASB 69 to record the acquisition of the operations of the City of Detroit water and sewage disposal systems. The liability for the leases is allocated in the computation of net position based upon the components of net position acquired. Under the definitions of the regional system leases all improvements, additions and replacements to the original facilities acquired are considered to be leased facilities.



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# NOTE 14 - REGIONAL SYSTEMS LEASES PAYABLE AND RELATED PREPAID LEASE (cont.)

Amounts reported as a liability at year-end represent the net present value of all future lease payments. Changes in the Regional Systems leases payable for the year ended June 30, 2022 were as follows:

	 Beginning Balance	Increase	_	Decre	ease	 Ending Balance	Amount due Within One Year*
Water Fund Sewage Disposal Fund	\$ 411,237,284 502,623,348	- -	•	. ,	54,877) 67,073)	\$ 405,782,407 495,956,275	\$ 5,686,745 6,950,466
Total Business-type Activities	\$ 913,860,632	\$ 		\$ (12,12	21,950)	\$ 901,738,682	\$ 12,637,211

<sup>\*</sup> The current portion of the Regional Systems leases payable represents the 12 monthly payments required from July 1, 2022 through June 30, 2023. Future revenues are intended to cover these payments.

As of June 30, 2022, aggregate requirements of the Regional Systems leases were as follows:

	Year Ended June 30	Principal	Interest	Total
Water Fund		-		
	2023	\$ 5,686,745	\$ 16,813,255	\$ 22,500,000
	2024	5,928,467	16,571,533	22,500,000
	2025	6,180,464	16,319,536	22,500,000
	2026	6,443,173	16,056,827	22,500,000
	2027	6,717,048	15,782,952	22,500,000
	2028 - 2032	38,118,590	74,381,410	112,500,000
	2033 - 2037	46,938,614	65,561,386	112,500,000
	2038 - 2042	57,799,449	54,700,551	112,500,000
	2043 - 2047	71,173,304	41,326,696	112,500,000
	2048 - 2052	87,641,652	24,858,348	112,500,000
	2053 - 2056	73,154,901	5,595,099	78,750,000
Total Water Fund		\$ 405,782,407	\$ 347,967,593	\$ 753,750,000



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

#### NOTE 14 - REGIONAL SYSTEMS LEASES PAYABLE AND RELATED PREPAID LEASE (cont.)

	Year Ended June 30	Principal	Interest	Total
Sewage Disposal Fund				
	2023 \$	6,950,466 \$	20,549,534	\$ 27,500,000
	2024	7,245,904	20,254,096	27,500,000
	2025	7,553,901	19,946,099	27,500,000
	2026	7,874,989	19,625,011	27,500,000
	2027	8,209,726	19,290,274	27,500,000
	2028 - 2032	46,589,388	90,910,612	137,500,000
	2033 - 2037	57,369,417	80,130,583	137,500,000
	2038 - 2042	70,643,770	66,856,230	137,500,000
	2043 - 2047	86,989,594	50,510,406	137,500,000
	2048 - 2052	107,117,575	30,382,425	137,500,000
	2053 - 2056	89,411,545	6,838,455	96,250,000
Total Sewage Disposal Fund	_	495,956,275	425,293,725	921,250,000
Total Business-type Activities	<u>\$</u>	901,738,682 \$	773,261,318	\$1,675,000,000

As part of the 2018 MOU, the MBO requirement for six months of lease payments made to DWSD on January 1, 2016 will be treated as a prepaid lease payment. The initial term of the regional system leases began on the effective date and ends on December 31, 2055. GLWA's last monthly payment shall be June 1, 2055 and GLWA's \$25 million lease pre-payment on January 1, 2016 shall be applied to the period of July 1, 2055 through December 31, 2055. Of the \$25 million recorded as a prepaid on the statement of net position, \$11,250,000 is recorded in the Water Fund and \$13,750,000 is in the Sewage Disposal Fund.

## **NOTE 15 – OTHER LIABILITIES**

Changes in other liabilities for the year ended June 30, 2022 were as follows:

	Beginning Balance	Increase	Decrease	Ending Balance	_	oue Within One Year
Water Fund Compensated absences Workers' compensation Claims and judgements Cash held for the benefit of DWSD budget	\$ 4,781,806 \$ 330,817 150,000	3,519,343 717,963 425,000	\$ (3,503,387) (835,480) (75,000)	4,797,762 213,300 500,000	\$	2,739,783 138,300 500,000
stabilization	 2,000,000		 	 2,000,000		<del>-</del>
Total Water Fund	 7,262,623	4,662,306	(4,413,867)	 7,511,062		3,378,083



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# NOTE 15 - OTHER LIABILITIES (cont.)

		Beginning Balance	Increase	Decrease	Ending Balance	_	ue Within One Year
Sewage Disposal Fund							
Lease payable – right to							
use asset	\$	4,447,297	\$ -	\$ (189,119)	\$ 4,258,178	\$	366,784
Compensated absences		847,122	1,592,356	(1,622,503)	816,975		719,079
Claim and judgements		9,325,000	525,000	-	9,850,000		2,350,000
Cash held for the benefit of DWSD budget	f						
stabilization		5,500,000			5,500,000		
Total Sewage Disposal							
Fund		20,119,419	2,117,356	(1,811,622)	20,425,153		3,435,863
Total Business-type Activities	\$	27,382,042	\$ 6,779,662	\$ (6,225,489)	\$ 27,936,215	\$	6,813,946

#### LEASE PAYABLE - RIGHT TO USE ASSET

The Authority entered into a lease agreement for a warehouse to store inventory for operational needs which began on April 1, 2021. The lease was recorded under GASB 87 using a discount rate of 3%. The lease term is for 5 years and 4 months with one five-year renewal option. The Authority has included the renewal period when recording the lease. An estimate of a 2.5% CPI at the time of renewal was used in calculating the payments for the renewal period.

The future lease payments are detailed below:

Year Ended					
June 30	Principal	Interest	Total		
Sewage Disposal Fund	 	 _		_	
2023	\$ 366,784	\$ 122,762	\$	489,546	
2024	390,070	111,443		501,513	
2025	414,719	99,404		514,123	
2026	436,958	86,622		523,580	
2027	462,398	73,181		535,579	
2028 - 2032	 2,187,249	 141,717		2,328,966	
Total Sewage Disposal Fund	\$ 4,258,178	\$ 635,129	\$	4,893,307	

The right to use assets acquired through the lease are summarized below:

	_		umulated	Er	nding Book
	Cost	Am	ortization		Value
Sewage Disposal Fund	_			<u> </u>	
Warehouse	\$ 4,543,607	\$	(549,630)	\$	3,993,977



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

## NOTE 15 - OTHER LIABILITIES (cont.)

#### **COMPENSATED ABSENCES**

The Authority has a paid time off (PTO) policy which has an annual accrual period ending September 30 each year. Employees are allowed to carry over a maximum bank of 80 hours to the next accrual period. Balances greater than 80 hours up to a maximum of 160 hours are converted to the retiree health saving program at 50% of the value of the PTO time. Hours in excess of 160 hours are forfeited if unused by September 30 of each accrual period. Due to Covid, an additional Reserve PTO account was created in September 2020 to allow team members to set aside an additional 80 hours of their PTO balance to be used through September 30, 2022. In August 2022, a change was made allowing employees an option to elect a payout of all or a partial amount of this Reserve PTO balance by September 30, 2022. Any amounts not paid out will remain in the Reserve PTO account until September 30, 2023 at which point any unused remaining hours will expire. The accrued compensated absences on June 30, 2022 for PTO accruals are \$2,754,143 for the Water Fund of which \$2,472,131 is current and \$816,975 for the Sewage Disposal Fund of which \$719,079 is current.

The Authority also has an accrued compensated absence liability assumed on January 1, 2016 relating to the accumulated unpaid vacation and sick leave balances for those employees who retired from the City or resigned from the City and accepted employment with the Authority on January 1, 2016. The June 30, 2021 balance of the accrued compensated absences for the liability assumed on January 1, 2016 is approximately \$2,043,619 of which \$267,652 is current. This liability is recorded in the Water Fund as the disbursements for payment will be processed from the Water Fund with reimbursement from the Sewage Disposal Fund. The accrued compensated absences include the employers' share of Social Security and Medicare taxes.

#### WORKERS' COMPENSATION

Workers' compensation is discussed in Note 16 Risk Management/Self-Insurance Programs.

#### **CLAIMS AND JUDGEMENTS**

The Authority has accrued in its financial statements for known asserted claims in which future settlements may be necessary. See Note 16 for discussion of risk of loss and insurance coverages.

#### CASH HELD FOR THE BENEFIT OF DWSD BUDGET STABILIZATION

Under the terms of the Master Bond Ordinance (MBO), the Authority retains cash on hand for the benefit of DWSD for budget stabilization funds to be used if DWSD has cash shortfalls. The 2018 Memorandum of Understanding set the balance to be retained in the Budget Stabilization Funds at \$7,500,000 for the life of the Regional System Leases. The Water Fund has retained \$2,000,000 and the Sewage Disposal Fund has \$5,500,000.



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

#### NOTE 16 - RISK MANAGEMENT/SELF-INSURANCE PROGRAMS

The Authority is exposed to various types of risk of loss including torts; theft of, damage to, or destruction of assets; errors or omissions; occupationally related illnesses or injuries to employees; natural disasters; and environmental occurrences. Also included are risk of loss associated with providing medical and prescription drug benefits to employees.

The Authority transfers risk via the purchase of a variety of insurance policies the most significant of which are shown in the table below (alphabetical by coverage):

Coverage	Coverage Limits	Maximum Retention Per Occurrence
Aviation	\$5,000,000	\$0
Fiduciary	\$15,000,000	\$10,000
General Liability	\$750,000,000	\$1,000,000
Pollution Legal Liability	\$25,000,000	\$500,000
Property Damage	\$750,000,000	\$1,000,000/\$3,500,000 for conveyor operations
Public Officials and Employment Practices	\$25,000,000	\$500,000
Underground Storage Tanks	\$2,000,000	\$5,000
Workers' Compensation	Statutory/ \$2,000,000	\$1,250,000

The Authority assumes all risk for motor vehicle physical damage.

Settled claims relating to commercial insurance have not exceeded the amount of insurance coverage since inception of the Authority.

A liability for claims is reported when it is probable that a loss has occurred, and the amount of the loss can be reasonably estimated. Liabilities include an amount for claims that have been incurred but not reported. The Authority estimates the liability for medical and worker's compensation claims that have been incurred through the end of the fiscal year, including claims that have been reported as well as those that have not yet been reported, which includes estimates of both future payments of losses and related claim adjustments expense. The liability is based on individual claims and management's evaluation of experience with respect to the probable number and nature of claims.



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# NOTE 16 - RISK MANAGEMENT/SELF-INSURANCE PROGRAMS (cont.)

#### MEDICAL AND PRESCRIPTION DRUG INSURANCE

The Authority provides medical and prescription drug benefits to a significant number of employees through a self-insured health plan that is administered by third party administrators. The Authority has stop loss insurance for its self-insured medical and prescription drug plans with terms of \$300,000 per contract to reduce risk exposure. The self-insured program is administered by a third-party administrator who provides claims review and processing services as well as illustrated premium rates, which are anticipated, over time, to approximate the actual cost of benefits. Claim payments are reported net of rebates received for negotiated pricing for pharmacy benefits and stop loss reimbursements. The unpaid claims estimate is accrued within the Water Fund's accrued salaries, wages and benefits payable account on the Statement of Net Position. Although the liability is recorded in the Water Fund, the Sewage Disposal Fund's share of these costs are allocated through the Centralized and Administrative Services allocation.

		2022	 2021
Unpaid claims, beginning of year Incurred claims (including change in IBNR provisions) Claims payments	\$ (	917,531 10,510,451 (10,662,187)	\$ 1,376,431 11,113,461 (11,572,361)
Unpaid Claims, End of Year	\$	765,795	\$ 917,531

#### WORKERS' COMPENSATION

The Authority maintains a self-insurance program for workers' compensation coverage up to statutory limits. The program is administered by a third-party who provides claim review and medical bill review services. Claim liabilities are calculated considering the effects of recent claim settlement trends including frequency and amount of payouts and other economic and social factors. The claim liabilities also include estimated costs for claim administration fees and outside legal and medical assistance costs. The liabilities for workers' compensation current year claims is based on estimates and payments are based on actuals. The unpaid claims estimate is accrued within the Water Fund's accrued workers' compensation account (See Note 15). Although the liability is recorded in the Water Fund, the Sewage Disposal Fund's share of these costs are allocated through the Centralized and Administrative Services allocation.

Changes in the balances of claims liabilities during the past two years are as follows:

	 2022	 2021
Unpaid claims, beginning of year Incurred claims (including change in IBNR provisions) Claims payments	\$ 330,817 717,963 (835,480)	\$ 251,834 337,010 (258,027)
Unpaid Claims, End of Year	\$ 213,300	\$ 330,817



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

#### **NOTE 17 – DEFINED CONTRIBUTION PENSION PLANS**

#### **DEFINED CONTRIBUTION PLANS**

The Great Lakes Water Authority Defined Contribution Retirement Plan is a 401(a) governmental money purchase plan administered by ICMA Retirement Corporation (the "Administrator") to provide benefits at retirement to all full-time employees of the Authority. The Authority contributes 6.0% of earnings to the plan. The Authority will make an additional contribution to the 401(a) plan to match employee contributions under the Great Lakes Water Authority 457 Plan up to 3% of compensation. Employees are 100% vested after three years of service (cliff vesting). Employees who transferred to the Authority on or around January 1, 2016 from DWSD retain their years of service for vesting purposes. The Authority recognized expense of \$5,154,140, which is net of forfeitures of \$349,255, for the year ended June 30, 2022. The Authority has accrued approximately \$60,000 of expense on the accrued payroll at June 30, 2022. At June 30, 2022, there were 1,175 plan members.

The Great Lakes Water Authority Defined Contribution Plan Make-Up Benefit is a 401(a) governmental money purchase plan administered by ICMA Retirement Corporation (the "Administrator") to provide benefits at retirement to all employees who terminated employment with DWSD on or around January 1, 2016 and were not vested in the City of Detroit General Retirement System (GRS). Eligible employees were required to rollover to the Authority's Section 457 Deferred Compensation Plan their refunded employee mandatory contribution from GRS. The amount of the make-up benefit was determined by an actuary based on the present value of the lost GRS benefit. It was accrued in fiscal year 2018 and funded during fiscal year 2019. No additional contributions are required for this plan. Employees are 100% vested after one year of service. At June 30, 2022 there are 28 participants in the plan.

The Authority has a Section 457 Deferred Compensation Plan which employees can make pre-tax or post-tax (Roth) contributions which are immediately 100% vested. At June 30, 2022 there were 1,196 plan members.

The Authority has a Roth IRA Plan which allows employees to make post-tax contributions which are immediately 100% vested. At June 30, 2022 there were 87 plan members.

#### RETIREMENT HEALTH SAVINGS PLAN

The Authority also provides a Retirement Health Savings Program for full-time employees. Employees are required to contribute \$10 per pay period and the Authority contributes \$80 per pay period. Employees are 100% vested after three years of service (cliff vesting). Employees who transferred to the Authority on or around January 1, 2016 from DWSD retain their years of service for vesting purposes. The Authority recognized an expense \$1,937,556, which is net of forfeitures of \$195,586, for the year ended June 30, 2022. The Authority has accrued approximately \$21,000 of expense on the accrued payroll at June 30, 2022. Employee contributions were \$256,640 for the year ended June 30, 2022. At June 30, 2022, there were 1,648 plan members.



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

#### NOTE 18 - NET PENSION LIABILITY (SPECIAL FUNDING SITUATION)

As part of the City of Detroit bankruptcy plan of adjustment (POA) and the Regional System Leases (Section 4.3), the City, the City of Detroit General Employees' Retirement system (GRS or the System) and the Authority entered into an agreement on December 1, 2015 that set forth the terms for contributions and reporting of the DWSD share of the GRS pension pool. GRS provides the information necessary for the Authority and DWSD to report the proportionate share separately in their respective statements. On January 24, 2017, DWSD and the Authority provided a supplement to the agreement whereby GRS is directed to allocate investments and pension liabilities of the DWSD division on the basis of 70.3% to the Authority and 29.7% to DWSD effective January 1, 2016. This agreement constitutes a special funding situation pursuant to the provisions of GASB Statement No. 68, Accounting and Financial Reporting for Pensions. As such, while no Authority employees earn service credit in the legacy or hybrid plans, GLWA is legally responsible for making substantial contributions to a legacy pension plan of another entity and, accordingly, must record a net pension liability for its proportion and make the following disclosures regarding the plan as repaired by the standard. Information is available in a separate audit report for the "General Retirement System of the City of Detroit Financial Report with Supplemental Information" as well as "The General Retirement System of the City of Detroit GASB Statement Nos. 67 and 68 Accounting and Financial Reporting for Pension Plans of Component II" as of June 30, 2021 which are available by contacting the Authority's management.

Plan Administration. The Authority contributes to (and DWSD participates in) the System. The System is a single employer plan composed of a defined benefit plan component and a defined contribution annuity plan component. The plan provides retirement, disability, and survivor benefits to plan members and beneficiaries. The plan is administered by its own board of trustees. Plan members include active employees, retirees and beneficiaries from various departments within the City. Benefit terms have been established by contractual agreements between the City and the employees' collective bargaining units; amendments are subject to the same process.

The System issues publicly available financial reports that include financial statements and the required supplementary information. The reports can be obtained from City of Detroit Retirement Systems, One Detroit Center, 500 Woodward Avenue, Suite 3000, Detroit, MI 48226 or obtained from the Systems' website (www.rscd.org). Detailed information about the pension plan's fiduciary net position is available in the separately issued financial reports.

Benefits Provided. Plan members may retire at age 55 or 60 with 5, 8, 10 or 25 years of credited service depending on which group the employee is in. Members are vested after completing 5, 8 or 10 years of credited service. Retirement options that provide for survivor benefits are available to members. The Plan also provides death and disability benefits. If a member leaves employment or dies before vesting, accumulated member contributions plus interest are refunded to the member or designated beneficiary.

Component II is the legacy plan, the original defined benefit plan, which includes a defined benefit component and a defined contribution component. Component II generally applies to benefits accrued by members prior to July 1, 2014. The plan provides retirement, disability, and survivor benefits to plan members and beneficiaries. Except as specifically provided in the combined plan, benefits provided under Component II are frozen effective June 30, 2014. Component II also includes the income stabilization fund. The fund, a part of Component II and established as a provision of the POA, was established for the sole purpose of paying the income stabilization benefits to eligible pensioners. Complete details regarding the Component II benefits and changes in those benefits by virtue of the POA are presented in the System financial statements.



## NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# NOTE 18 - NET PENSION LIABILITY (SPECIAL FUNDING SITUATION) (cont.)

*Employer Contributions.* Employer contributions, including the Authority's nonemployer contribution, for the respective components are as follows:

During the Plan's fiscal year 2021, employer contributions were not actuarially determined, but are determined by the provisions of the POA. Included within contributions for fiscal year 2021 are contributions from the Foundation for Detroit's Future in the amount of \$375,000 and approximately \$47.9 million of contributions from the City, City-related entities, and GLWA.

The POA obligates DWSD to pay \$2,500,000 per year towards administrative costs and annual plan contributions of \$42,900,000 per year in total for both water and sewer employees, until 2023. Pursuant to the Regional System leases, the Authority is obligated to pay its allocable share of such liability. The portion allocated to the Authority is \$31,916,200 for fiscal year 2022. This includes a contribution to the GRS pension plan of \$10,810,800 for the Water Fund and \$19,347,900 for the Sewage Disposal Fund for a total pension contribution of \$30,158,700. The contribution was made subsequent to the measurement date and has been recorded as a deferred outflow. It also includes an administrative fee of \$1,757,500, with \$630,000 paid by the Water Fund and \$1,127,500 paid by the Sewage Disposal Fund. Part of the administrative fee is considered a prepayment based on actual administrative expenses incurred by the plan as reported in the other supplemental information of the audited financial report of the GRS Plan.

Subsequent to 2023, DWSD and the Authority will be responsible for paying their allocable share of any additional amounts that are actuarially determined to be payable. An estimate of the 2024 contribution was included in the GRS annual actuarial valuation of Component II dated June 30, 2021. The total share for the DWSD is estimated to be \$0.6 million. GLWA's share of the 2024 estimated contribution will be between \$0.42 million with approximately \$0.15 million allocated to the Water Fund and approximately \$0.27 million allocated to the Sewage Disposal Fund.

The information below represents the Authority's share of pension liability activity. DWSD separately reports its pro rata share of activity in its separate financial statements.

*DWSD Employee Contributions*. Contribution requirements of plan members are established and may be amended by the GRS Board of Trustees in accordance with the City Charter, union contracts, and plan provisions. For the year ended June 30, 2021, there were no employee contributions into Component II, as the plan was frozen as of June 30, 2014; contributions into Component I began thereafter.

Actuarial Assumptions. The total pension liability was actuarial determined as of June 30, 2020, which used updated procedures to roll forward the estimated liability to June 30, 2021. The actuarial valuation used the following actuarial assumptions applied to all periods included in the measurement.

Inflation Not applicable

Salary increases No inflation assumption or salary increases due

to plan freeze as of June 30, 2014

Investment rate of return 6.50%, net of investment expense and

including inflation

Based on an experience study from 2008-2013 issued in February 2015; the mortality table assumption was based on RP-2014 Blue Collar Annuitant Table for males and females. The tables are projected to be fully generational, based on two-dimensional sex distinct mortality scale MP-2014.

The actuarial assumptions, other than mortality and the investment rate of return were based on the results of an actuarial experience study for the period from 2002-2007.



#### NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

#### NOTE 18 - NET PENSION LIABILITY (SPECIAL FUNDING SITUATION) (cont.)

Investment Rate of Return. The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimates of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return as of June 30, 2021, for each major asset class included in the pension plan's target allocation, and those target allocations, are summarized in the following table:

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return
Global equity	46.0%	5.80%
Global fixed income	33.0%	3.28%
Real estate	13.0%	5.94%
Diversifying strategies	8.0%	3.22%
	100.0%	

Single Discount Rate. A Single Discount Rate of 6.50%, net of investment expenses, was used to measure the total pension liability as of June 30, 2021. This Single Discount Rate was based on the expected rate of return on pension plan investments of 6.50% as directed by the System and approved by the System's Auditor. The projection of cash flows used to determine this Single Discount Rate assumed that plan member contributions ceased as of June 30, 2014, and that employer contributions will be made at rates equal to those set by the final Plan of Adjustment through June 30, 2023 and contributions consistent with PERSIA and the intention to fully fund the System by 2053 as determined in the bankruptcy (POA). Based on these assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

*Net Pension Liability*. As permitted by GASB Statement No. 68, the net pension liability was measured as of June 30, 2021, and the total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of that date.

Changes in the Net Pension Liability. The components of the change in the Authority's share of the net pension liability are summarized as follows:

	Water	Sewage Disposal	Total
Total pension liability Plan fiduciary net position	\$ 183,593,989 (160,214,509)	\$ 328,574,957 (286,733,110)	\$ 512,168,946 (446,947,619)
Authority's Net Pension Liability	\$ 23,379,480	\$ 41,841,847	\$ 65,221,327



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# NOTE 18 - NET PENSION LIABILITY (SPECIAL FUNDING SITUATION) (cont.)

		otal Pension Liability (a)	F	Plan Fiduciary Net Position (b)	Net Pension Liability (a) – (b)		
Water Fund							
Balances at June 30, 2021	\$	182,181,063	\$	130,452,884	\$	51,728,179	
Changes for the year: Interest Difference between expected and		12,299,693		-		12,299,693	
actual experience		(3,299,415)		-		(3,299,415)	
Changes in assumptions		8,341,534		-		8,341,534	
Employer contributions		-		10,810,800		(10,810,800)	
Net investment income		-		34,407,230		(34,407,230)	
Benefit payments, including refunds of employee contributions		(15,928,886)		(15,928,886)		_	
Other changes		(10,020,000)		472,481		(472,481)	
Net changes		1,412,926		29,761,625		(28,348,699)	
110t offdriges		1,412,020		20,701,020		(20,040,000)	
Balances at June 30, 2022	\$	183,593,989	\$	160,214,509	\$	23,379,480	
	T	otal Pension Liability (a)	F	Plan Fiduciary Net Position (b)	Ν	let Pension Liability (a) – (b)	
Sewage Disposal Fund							
Balances at June 30, 2021	\$	326,046,271	\$	233,469,252	\$	92,577,019	
Changes for the year:			<u> </u>	, , , , , , , , , , , , , , , , , , ,			
Interest Difference between expected and		22,012,546		-		22,012,546	
actual experience		(5,904,906)		-		(5,904,906)	
Changes in assumptions		14,928,696		-		14,928,696	
Employer contributions		-		19,347,900		(19,347,900)	
Net investment income		-		61,578,019		(61,578,019)	
Benefit payments, including refunds of		(00 507 050)		(00 505 050)			
employee contributions		(28,507,650)		(28,507,650)		- (045 500)	
Other changes		<del>-</del>		845,589		(845,589)	
Net changes		2,528,686	_	53,263,858		(50,735,172)	
Balances at June 30, 2022	\$	328,574,957	\$	286,733,110	\$	41,841,847	

Sensitivity of the Net Pension Liability to Changes in the Discount Rate. The following presents the net pension liability of the Authority, calculated using the discount rate of 6.50%, as well as what the Authority's net pension liability would be if it were calculated using a discount rate that is 1% lower (5.50%) or 1% higher (7.50%) than the current rate:

	1% Decrease (5.50%)		Di:	Current scount Rate (6.50%)	1% Increase (7.50%)		
Water Fund Sewage Disposal Fund	\$	29,783,783 53,303,517	\$	23,379,480 41,841,847	\$	17,911,167 32,055,303	
Authority's Net Pension Liability	\$	83,087,300	\$	65,221,327	\$_	49,966,470	



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# NOTE 18 - NET PENSION LIABILITY (SPECIAL FUNDING SITUATION) (cont.)

Pension Plan Fiduciary Net Position. Detailed information about the pension plan's fiduciary net position is available in the separately issued plan financial statements.

Pension Expense and Deferred Outflows and Inflows of Resources Related to Pensions. For the year ended June 30, 2022, the Authority recognized pension expense of \$4,988,132 and \$8,927,171 for the Water and Sewage Disposal Funds, respectively. At June 30, 2022, the Authority reported deferred outflows and inflows of resources related to pensions from the following sources:

		Deferred Outflows of Resources		Deferred Inflows of Resources		Net Deferred Outflows (Inflows) of Resources
Water Fund  Net difference between projected and actual earnings on pension plan investments	\$	_	\$	5 11,224,189	\$	(11,224,189)
Employer contributions to the plan subsequent to the measurement date	-	10,810,800	_	-	Ψ —	10,810,800
Total Water Fund	_	10,810,800	-	11,224,189		(413,389)
Sewage Disposal Fund  Net difference between projected and actual earnings on pension plan investments  Employer contributions to the plan subsequent		-		20,087,733		(20,087,733)
to the measurement date	_	19,347,900	_	<u>-</u>		19,347,900
Total Sewage Disposal Fund		19,347,900		20,087,733		(739,833)
Total Business-type Activities	\$	30,158,700	\$	31,311,922	\$	(1,153,222)

The amount reported as deferred outflows of resources resulting from contributions subsequent to the measurement date will be recognized as a reduction in the net pension liability for the year ending June 30, 2023. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to pension will be recognized in pension expense as follows:

Year Ended June 30	 Water		Sewage Disposal	 Total
2023 2024 2025 2026	\$ (1,840,794) (1,479,001) (2,832,144) (5,072,250)	\$	(3,294,438) (2,646,942) (5,068,638) (9,077,715)	\$ (5,135,232) (4,125,943) (7,900,782) (14,149,965)
Total	\$ (11,224,189)	\$	(20,087,733)	\$ (31,311,922)

Payable to the Pension Plan. At June 30, 2022, the Authority did not have any outstanding contributions payable to the pension plan for the year then ended.



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

#### **NOTE 19 – COMMITMENTS AND CONTINGENCIES**

#### CAPITAL IMPROVEMENT PROGRAM

The Authority is engaged in a variety of projects that are part of its five-year capital improvement program (the Program). The total cost of this Program for the Water Fund is anticipated to be approximately \$965.6 million with an 80% spend rate assumption of \$772.5 million through fiscal year 2027. The total cost for the Sewage Disposal Fund is anticipated to be approximately \$761.8 million with a 75% spend rate assumption of \$571.3 million through fiscal year 2027. The Program is being financed from revenue bond and state revolving fund proceeds in addition to the Improvement and Extension Funds.

The total amount of construction contract commitments outstanding at June 30, 2022 was approximately \$332 million for the Water Fund and \$134 million for the Sewage Disposal Fund.

The current wastewater disposal service contract with the Oakland-Macomb Interceptor Drain Drainage District (OMIDD) provides for OMIDD to maintain, repair, and improve Interceptor PCI-5, the Northeast Sewer Pump Station and the North Interceptor East Arm, which are related to the capital assets in the Regional Sewage Disposal System Lease (See Note 14). The amount of capital improvements in progress related to the contract are estimated by OMIDD to be worth \$57.6 million for the Sewage Disposal Fund at June 30, 2022. At a future date, in accordance with the contract, OMIDD will offer and transfer the assets, following GLWA's acceptance, as the assets are placed in service.

#### Subscription-Based Information Technology Arrangements (SBITA)

The Authority has two SBITA's that are in the implementation phase. A summary of the commitments for each SBITA are detailed below:

NEXGEN is an enterprise asset management system subscription service. The contract is a \$1.7 million purchase for a duration of five years with one two-year renewal. The contract ends November 30, 2026 with a two-year renewal which would end November 30, 2028. The anticipated in-service date is expected during fiscal year 2024. There is a separate implementation contract for three years ending early in fiscal year 2025 for a not to exceed cost of \$4.6 million. The Authority's remaining commitment under this contract is \$4.3 million. Implementation costs incurred up to the date placed in service will be capitalized.

Workday is an enterprise resource planning system subscription service which is an integrated financial, HR, payroll and analytic system service. The contract is for eight years ending in fiscal year 2030. The cost for the SBITA for the eight-year period is \$5.1 million. The remaining commitment under this contract is \$4.8 million. The anticipated in-service date for HR and payroll is January 2024, and the financial system in July 2024. There is a separate implementation contract which terminates in 2029 for a not to exceed cost of \$4.6 million. The Authority's remaining commitment under this contract is \$4 million. Implementation costs incurred up to the date placed in service will be capitalized.

#### 2021 RAIN EVENTS

During the Summer of 2021, GLWA's service area experienced several intense rain events. These rain events resulted in sewer backups, causing property damage. GLWA received over 23,000 property damage claims from these intense rain events. Most of the claims relate to rain events occurring on June 25-26, 2021 and July 16, 2021.



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

#### **NOTE 19 – COMMITMENTS AND CONTINGENCIES (cont.)**

The Board hired an independent investigative team to review the rain events. In June 2022, the Independent Investigative Team reviewing the rain events of June and July 2021 presented its final report to the Great Lakes Water Authority (GLWA) Board of Directors. The report concluded that heavy and historic rainfalls exceeded the design capacity of the wastewater system, making surface flooding and basement backups inevitable. For the June 25/26 rain event, the report also stated that even if every piece of piping and equipment in the regional system worked in an ideal manner, basement backups and surface flooding would still have occurred in GLWA's system, or any other collection system designed to today's standard. This standard reflects a collection system designed to handle 1.7 inches of rain in one hour (with no rain before/no rain after) or 3.31 inches in 24 hours. On June 25, more than six inches was experienced in only half that time, which is double the maximum design standard for 24 hours.

In July 2022, GLWA announced that it is denying all claims submitted to the Authority related to the historic rain events that took place in the summer of 2021. Official notification was mailed to the claimants. This decision was based on the findings of the independent investigation and that under Michigan's Governmental Liability for Negligence Act, a public entity such as GLWA can only be liable for a sewage disposal system event (a basement backup) if a defect in its sewage disposal system was the substantial proximate cause (50 percent or more of the cause) of the event and property damage or physical injury.

The Authority has submitted an initial insurance claim for repairs and maintenance costs incurred from the flood damage and has received a payment of \$1 million during the fiscal year. This payment was net of the \$1 million deductible on the policy. The Authority expects future additional costs for repairs and maintenance and debris removal from the interceptors as a result of the heavy rains. The amount is not able to be estimated at this time. Claims will be submitted to the insurance as these costs are incurred.

#### **CONTINGENCIES**

The Authority is subject to various government environmental laws and regulations. GASB Statement No. 49, *Accounting and Financial Reporting for Pollution Remediation Obligations*, established accounting and financial reporting standards for pollution (including contamination) remediation obligations, which are obligations to address the current or potential detrimental effects of existing pollution by participating in pollution remedial activities such as site assessments and cleanups. The standard excludes pollution prevention or control obligations with respect to current operations, and future pollution remediation activities that are required upon retirement of an asset, such as landfill closure and post-closure care. The Authority determined that there were no estimated pollution remediation obligations to be recorded at June 30, 2022.

GASB Statement No. 83, Certain Asset Retirement Obligations, established accounting and financial reporting standards for legally enforceable liabilities related to the retirement of tangible capital asset(s) where the tangible capital asset is permanently removed from service. The retirement of a tangible capital asset can occur via sale, abandonment, recycling or disposal in some other manner and excludes the temporary idling of a tangible capital asset. An asset retirement obligation does not apply to obligations resulting from the disposal, or plan to dispose, of a tangible capital asset; obligation(s) associated with using a tangible capital asset for a different purpose; obligation(s) for pollution remediation; obligation(s) from regular maintenance or the cost to replace a component. The Authority determined there were no legally enforceable asset retirement obligations to be recorded at June 30, 2022.



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

#### **NOTE 19 – COMMITMENTS AND CONTINGENCIES (cont.)**

The Sewage Disposal Fund's operations are subject to regulation pursuant to the Federal Water Pollution Control Act, as amended by the Clean Water Act of 1977 and the Water Quality Act of 1987 (collectively, the Clean Water Act). Included in the regulatory framework established by the Clean Water Act is the National Pollutant Discharge Elimination System (NPDES) permit program, which requires operation of wastewater system facilities according to discharge limitations and other requirements as set forth in permits issued to each facility. The Environmental Protection Agency (EPA) has authorized the Michigan Department of Environmental Quality (MDEQ) to implement and enforce the federal NPDES permit program. The Sewage Disposal Fund operates pursuant to the NPDES Permit. The Authority's current NPDES permit was issued July 1, 2019 and expired on October 1, 2022. A new permit application was submitted in March 2022. The Authority will continue to operate under the old permit until the new permit is issued.

The Authority is a defendant in numerous alleged claims, lawsuits, billing disputes, and other stated and pending demands. The Authority's Legal Department has estimated a reserve of \$500,000 for the Water Fund and \$9,850,000 for the Sewage Disposal Fund, which are included in the accompanying financial statements, for the potential outcome of such claims or the amount of potential damages in the event of an unfavorable outcome for each of the above contingencies. The Authority's management believes that any differences in reserved amounts and final settlement, after consideration of claims covered by insurance, resulting from such litigation will not materially impact the Authority's financial position or results of operations.

The Authority holds various commercial insurance policies to cover other potential loss exposures.



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

# NOTE 20 - NET INVESTMENT IN CAPITAL ASSETS

The composition of net investment in capital assets as of June 30, 2022 was as follows:

			Total
	Water	Sewage	Business-type
	Fund	Disposal Fund	Activities
Capital Assets and Intangible Asset			
Capital assets not being depreciated	\$ 567,414,021	\$ 320,526,307	\$ 887,940,328
Capital assets being depreciated, net	1,293,659,589	2,138,777,595	3,432,437,184
Intangible asset – net	90,652,709	3,993,977	94,646,686
Tatal Ossital Assats and Internalists Assat	4.054.700.040	0.400.007.070	4 445 004 400
Total Capital Assets and Intangible Asset	1,951,726,319	2,463,297,879	4,415,024,198
Less: Related Debt			
Total bonds and loans, net (Note 13)	2,399,329,541	2,878,035,401	5,277,364,942
Less: Portion of bonds used for SWAP			
termination agreements	(168,094,391)	(222,813,324)	(390,907,715)
Less: Obligation receivable-local share of			
debt (Note 8)	(567,619,210)	(385,198,595)	(952,817,805)
Deferred charge on refunding	(41,997,055)	(110,341,248)	(152,338,303)
Deferred gain on refunding	48,216,421	40,566,648	88,783,069
Capital portion of regional system lease	295,693,640	344,342,442	640,036,082
Lease obligation-raw water rights (Note 13)	95,361,056	-	95,361,056
Lease obligation-right to use asset			
(Note 15)		4,258,178	4,258,178
Total Related Debt	2,060,890,002	2,548,849,502	4,609,739,504
Net Investment in Capital Assets	<u>\$ (109,163,683)</u>	\$ (85,551,623)	\$ (194,715,306)

The capital portion of the regional system lease payable is the percentage of the lease liability that has been determined to be allocated to the net investment in capital assets acquired. The lease is described in Note 14.

#### **NOTE 21 - SUBSEQUENT EVENTS**

# WATER MAIN BREAK

On August 13, 2022, the Authority's System Control Center identified that there was a break in the system and notified the Lake Huron Water Treatment Facility Team (LH) to go find the physical location of the break. The LH Team found the break in a farm field on a 120-inch water transmission main about a mile from the plant. This main is the largest in the regional water transmission system – providing water to the northern most communities in our service area. The transmission main was repaired and returned to service during the weekend of October 1st, 2022. GLWA was able to increase production at the Northeast and Springwells Water Treatment plants and made changes to how water is routed in the system to restore water flow and pressure in the system. The City of Flint water was sourced under a back-up agreement with the Genesee County Drain Commission starting August 13, 2022. Normal operations with the City of Flint were restored on October 13, 2022. Repair costs are expected to be between \$2 million and \$3 million and will be paid for from unallocated reserves in the Water Fund.



NOTES TO FINANCIAL STATEMENTS As of and for the Year Ended June 30, 2022

#### **NOTE 21 – SUBSEQUENT EVENTS** (cont.)

#### JUNIOR LIEN REVENUE BONDS

The Authority received an order of approval from EGLE in August 2022, for \$34.1 million for regional water system improvements. This order of approval is for the \$40 million SRF Junior Lien Water Supply System Revenue Bonds (Ordinance No. 2022-03) approved by the GLWA Board in June 2022.

The Authority received two orders of approvals from EGLE in August 2022, one for \$50.3 million and one for \$19 million, both for regional sewage disposal system improvements. These order of approvals are for the \$66 million SRF Junior Lien Sewage Disposal System Revenue Bonds (Ordinance No. 2022-04) approved by the GLWA Board in June 2022 and \$21 million SRF Junior Lien Sewage Disposal System Revenue Bonds (Ordinance No. 2022-05) approved by the GLWA Board in July 2022.

The above SRF loans bear a fixed interest rate of 1.875% for a term of twenty (20) years.

#### RATING AGENCY UPGRADES

In August 2022, S&P Global Ratings affirmed the Authority's senior lien water and sewage disposal systems rating of AA- and its second lien water system rating of A+. The outlook remained stable. Moody's Investors Service affirmed the Authority's water system and sewer disposal system senior lien ratings of A1, and its second lien ratings of A2. The outlook was moved to positive from stable for both. Fitch affirmed the Authority's ratings for its water system and sewer disposal system senior lien bonds at an A+, and its second lien bonds at an A. The outlook was moved to positive from stable for the sewage disposal system. The water system outlook remained stable.

#### WATER BOND NEW MONEY, SEWER BOND REFUNDING AND SEWER NEW MONEY BOND TRANSACTION

On September 13, 2022, the Authority issued a new money water bond transaction and a bond refunding and new money sewage disposal system transaction. The Authority issued \$207,215,000 of Water Supply System Revenue Bonds and \$210,455,000 of Sewage Disposal System Revenue Bonds (\$197,965,000 in new money and \$12,490,000 in refunding bonds). The net present value savings from the refunding transaction for the sewage disposal fund was \$211,718.



**REQUIRED SUPPLEMENTARY INFORMATION** 



#### REQUIRED SUPPLEMENTARY INFORMATION

Nonemployer Contributing Entity Share of City of Detroit General Employees' Retirement System - Component II Schedule of Changes in Net Pension Liability and Related Ratios - Business-Type Activities

								Fiscal Year						
		2022		2021		2020		2019		2018		2017		2016
Measurement Date		2021*		2020*		2019*		2018*		2017*		2016*		2015**
Share of Total Pension Liability														
Interest	\$	34,312,239	\$	36,284,099	\$	36,700,388	\$	36,577,126	\$	37,829,066	\$	40,381,626	\$	51,393,411
Differences between expected and														
actual experience		(9,204,321)		(10,265,139)		3,462,000		(320,610)		2,369,183		(5,063,923)		(427,134)
Changes in assumptions		23,270,230		13,103,099		-		(21,345,359)		15,153,104		17,627,395		(19,789,958)
Benefit changes		-		-		-		-		-		-		(152,368,108)
Benefit payments, including refunds														
of employee contributions		(44,436,536)		(45,098,368)		(46,507,916)		(47,396,240)		(51,081,380)		(69,639,576)		(54,293,644)
Net change		3,941,612		(5,976,309)		(6,345,528)		(32,485,083)		4,269,973		(16,694,478)		(175,485,433)
Share of total pension liability, beginning of year		508,227,334	_	514,203,643	_	520,549,171	_	553,034,254		548,764,281	_	565,458,759	_	740,944,192
Share of Total Pension Liability, End of Year	_	512,168,946	_	508,227,334	_	514,203,643		520,549,171	_	553,034,254	_	548,764,281		565,458,759
Share of Plan Fiduciary Net Position														
Employer contributions		30,158,700		30,158,700		30,158,700		30,158,700		30,158,700		30,158,700		30,150,889
Employee contributions		_		-		-		-		-		-		130,951
Net investment income (loss)		95,985,249		(3,614,092)		9,194,433		30,347,172		38,812,244		(1,311,974)		17,280,285
Benefit payments, including refunds		, ,		(-,- , ,		., . ,		,- ,		,		( ,- ,- ,		,,
of employee contributions		(44,436,536)		(45,098,368)		(46,507,916)		(47,396,240)		(51,081,380)		(69,639,576)		(54,293,644)
Administrative expense		-		-		-		-		-		-		(21,294)
Other changes		1,318,070		1,182,142		(119,469)		1,386,027		1,494,049		252,263		27,758,558
Net change		83,025,483		(17,371,618)		(7,274,252)		14,495,659		19,383,613		(40,540,587)		21,005,745
Share of plan fiduciary net position, beginning of year		363,922,136	_	381,293,754	_	388,568,006	_	374,072,347	_	354,688,734		395,229,321	_	374,223,576
Share of Plan Fiduciary Net Position, End of Year		446,947,619	_	363,922,136		381,293,754		388,568,006		374,072,347	_	354,688,734		395,229,321
SHARE OF NET PENSION LIABILITY	\$	65,221,327	\$	144,305,198	\$	132,909,889	\$	131,981,165	\$	178,961,907	\$	194,075,547	\$	170,229,438
Nonemployer contributing entity share of collective net pension liability		7.4%		13.1%		14.2%		15.9%		19.0%		19.5%		20.6%
Plan fiduciary net position as a percentage of total pension liability		87.3%		71.6%		74.2%		74.6%		67.6%		64.6%		69.9%

<sup>\*</sup> As described in Notes 1 and 18 GLWA was established on January 1, 2016. At that time, GLWA assumed a portion of the net position and liabilities of the City of Detroit Water and Sewerage Department. This reflects only the portion allocated to GLWA.

<sup>\*\*</sup> The 2015 information is presented based on City of Detroit Water and Sewerage Department (DWSD) prior to the establishment of GLWA. The amounts shown represent GLWA's allocation, fiduciary net position and net pension liability. The actual employer contributions made by DWSD were \$42,888,889.



#### REQUIRED SUPPLEMENTARY INFORMATION

Nonemployer Contributing Entity Share of City of Detroit General Employees' Retirement System - Component II Schedule of Changes in Net Pension Liability and Related Ratios - Water Fund

							Fiscal Year						
	2022		2021		2020		2019		2018		2017		2016
Measurement Date	2021*		2020*		2019*		2018*		2017*		2016*		2015**
Share of Total Pension Liability													
Interest	\$ 12,299,693	\$	13,006,533	\$	13,155,758	\$	13,111,573	\$	13,560,348	\$	14,475,348	\$	18,422,673
Differences between expected and													
actual experience	(3,299,415)		(3,679,680)		1,241,001		(114,927)		849,266		(1,815,233)		(153,112)
Changes in assumptions	8,341,534		4,696,986		-		(7,651,537)		5,431,838		6,318,782		(7,093,982)
Benefit changes			-		-		-		-		-		(54,618,440)
Benefit payments, including refunds													, , , ,
of employee contributions	(15,928,886)		(16,166,129)		(16,671,401)		(16,989,833)		(18,310,822)		(24,963,262)		(19,462,302)
Net change	1,412,926		(2,142,290)		(2,274,642)		(11,644,724)		1,530,630		(5,984,365)		(62,905,163)
Share of total pension liability, beginning of year	 182,181,063	_	184,323,353	_	186,597,995	_	198,242,719	_	196,712,089	_	202,696,454	_	265,601,617
Share of Total Pension Liability, End of Year	 183,593,989	_	182,181,063	_	184,323,353	_	186,597,995		198,242,719	_	196,712,089		202,696,454
Share of Plan Fiduciary Net Position													
Employer contributions	10,810,800		10,810,800		10,810,800		10,810,800		10,810,800		10,810,800		10,808,000
Employee contributions	-		-		-		-		-		-		46,941
Net investment income (loss)	34,407,230		(1,295,521)		3,295,871		10,878,360		13,912,782		(470,295)		6,194,355
Benefit payments, including refunds													
of employee contributions	(15,928,886)		(16,166,129)		(16,671,401)		(16,989,833)		(18,310,822)		(24,963,262)		(19,462,302)
Administrative expense	-		-		· -		· -		-		-		(7,633)
Other changes	 472,481		423,755		(42,826)		496,841		535,562		90,427		9,950,436
let change	29,761,625		(6,227,095)		(2,607,556)		5,196,168		6,948,322		(14,532,330)		7,529,797
Share of plan fiduciary net position, beginning of year	 130,452,884	_	136,679,979	_	139,287,535		134,091,367	_	127,143,045	_	141,675,375	_	134,145,578
Share of Plan Fiduciary Net Position, End of Year	 160,214,509	_	130,452,884	_	136,679,979		139,287,535		134,091,367	_	127,143,045		141,675,375
SHARE OF NET PENSION LIABILITY	\$ 23,379,480	\$	51,728,179	\$	47,643,374	\$	47,310,460	\$	64,151,352	\$	69,569,044	\$	61,021,079
Nonemployer contributing entity share of collective net pension liability - Water Fund	2.6%		4.7%		5.1%		5.7%		6.8%		7.0%		7.4%
Plan fiduciary net position as a percentage of total pension liability	87.3%		71.6%		74.2%		74.6%		67.6%		64.6%		69.9%

<sup>\*</sup> As described in Notes 1 and 18 GLWA was established on January 1, 2016. At that time, GLWA assumed a portion of the net position and liabilities of the City of Detroit Water and Sewerage Department. This reflects only the portion allocated to GLWA.

<sup>\*\*</sup> The 2015 information is presented based on City of Detroit Water and Sewerage Department (DWSD) prior to the establishment of GLWA. The amounts shown represent GLWA's allocation, fiduciary net position and net pension liability. The actual employer contributions made by DWSD were \$18,440,222.



#### REQUIRED SUPPLEMENTARY INFORMATION

Nonemployer Contributing Entity Share of City of Detroit General Employees' Retirement System - Component II Schedule of Changes in Net Pension Liability and Related Ratios - Sewage Disposal Fund

								Fiscal Year						
		2022		2021		2020		2019		2018		2017		2016
Measurement Date		2021*		2020*		2019*		2018*		2017*		2016*		2015**
Share of Total Pension Liability														
Interest	\$	22,012,546	\$	23,277,566	\$	23,544,630	\$	23,465,553	\$	24,268,718	\$	25,906,278	\$	32,970,738
Differences between expected and														
actual experience		(5,904,906)		(6,585,459)		2,220,999		(205,683)		1,519,917		(3,248,690)		(274,022)
Changes in assumptions		14,928,696		8,406,113		-		(13,693,822)		9,721,266		11,308,613		(12,695,976)
Benefit changes				-		-		-		-		-		(97,749,668)
Benefit payments, including refunds														
of employee contributions		(28,507,650)		(28,932,239)		(29,836,515)		(30,406,407)		(32,770,558)		(44,676,314)		(34,831,342)
Net change		2,528,686		(3,834,019)		(4,070,886)		(20,840,359)		2,739,343		(10,710,113)		(112,580,270)
Share of total pension liability, beginning of year		326,046,271		329,880,290	_	333,951,176		354,791,535		352,052,192	_	362,762,305	_	475,342,575
Share of Total Pension Liability, End of Year	_	328,574,957		326,046,271	_	329,880,290		333,951,176		354,791,535		352,052,192	_	362,762,305
Share of Plan Fiduciary Net Position														
Employer contributions		19,347,900		19,347,900		19,347,900		19,347,900		19,347,900		19,347,900		19,342,889
Employee contributions		-		-		-		-		· · · · -		-		84,010
Net investment income (loss)		61,578,019		(2,318,571)		5,898,562		19,468,812		24,899,462		(841,679)		11,085,930
Benefit payments, including refunds												,		
of employee contributions		(28,507,650)		(28,932,239)		(29,836,515)		(30,406,407)		(32,770,558)		(44,676,314)		(34,831,342)
Administrative expense		-		-		-		-		-		-		(13,661)
Other changes		845,589		758,387		(76,643)		889,186		958,487		161,836		17,808,122
Net change		53,263,858		(11,144,523)		(4,666,696)		9,299,491		12,435,291		(26,008,257)		13,475,948
Share of plan fiduciary net position, beginning of year		233,469,252		244,613,775	_	249,280,471		239,980,980	_	227,545,689	_	253,553,946	_	240,077,998
Share of Plan Fiduciary Net Position, End of Year		286,733,110	_	233,469,252	_	244,613,775	_	249,280,471	_	239,980,980	_	227,545,689	_	253,553,946
SHARE OF NET PENSION LIABILITY	\$	41,841,847	\$	92,577,019	\$	85,266,515	\$	84,670,705	\$	114,810,555	\$	124,506,503	\$	109,208,359
Nonemployer contributing entity share of collective net pension liability - Sewage Disposal Fund		4.7%		8.4%		9.1%		10.2%		12.2%		12.5%		13.2%
Plan fiduciary net position as a percentage of total pension liability		87.3%		71.6%		74.2%		74.6%		67.6%		64.6%		69.9%

<sup>\*</sup> As described in Notes 1 and 18 GLWA was established on January 1, 2016. At that time, GLWA assumed a portion of the net position and liabilities of the City of Detroit Water and Sewerage Department. This reflects only the portion allocated to GLWA.

<sup>\*\*</sup> The 2015 information is presented based on City of Detroit Water and Sewerage Department (DWSD) prior to the establishment of GLWA. The amounts shown represent GLWA's allocation, fiduciary net position and net pension liability. The actual employer contributions made by DWSD were \$24,448,667.



REQUIRED SUPPLEMENTARY INFORMATION

Nonemployer Contributing Entity Share of City of Detroit General Employees' Retirement System - Component II Schedule of Contributions

				Fiscal Year			
	2022	2021*	2020*	2019*	2018*	2017*	2016*
Total Business-Type Activities Contractually required contribution** Actual contribution Contribution deficiency (excess)	\$ 30,158,700	\$ 30,158,700	\$ 30,158,700	\$ 30,158,700	\$ 30,158,700	\$ 30,158,700	\$ 30,158,700
	30,158,700	30,158,700	30,158,700	30,158,700	30,158,700	30,158,700	30,158,700
	\$ -	\$ -	\$ -	\$	\$ -	\$ -	\$ -
Water Fund Contractually required contribution** Actual contribution Contribution deficiency (excess)	\$ 10,810,800	\$ 10,810,800	\$ 10,810,800	\$ 10,810,800	\$ 10,810,800	\$ 10,810,800	\$ 10,810,800
	10,810,800	10,810,800	10,810,800	10,810,800	10,810,800	10,810,800	10,810,800
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sewage Disposal Fund Contractually required contribution** Actual contribution Contribution deficiency (excess)	\$ 19,347,900	\$ 19,347,900	\$ 19,347,900	\$ 19,347,900	\$ 19,347,900	\$ 19,347,900	\$ 19,347,900
	19,347,900	19,347,900	19,347,900	19,347,900	19,347,900	19,347,900	19,347,900
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

<sup>\*</sup> As described in Notes 1 and 18 GLWA was established on January 1, 2016. At that time GLWA assumed a portion of the net position and liabilities of the City of Detroit Water and Sewerage Department. This reflects only the portion allocated to GLWA.

<sup>\*\*</sup> Contributions are determined by the provisions of the Plan of Adjustment and are not actuarially determined.



Nonemployer Contributing Entity Share of City of Detroit General Employees' Retirement System – Component II

## NOTES TO REQUIRED SUPPLEMENTARY INFORMATION For the Year Ended June 30, 2022

#### Changes in Assumptions

In 2016, amounts reported as changes in assumptions resulted from adjustment of the discount rate from 7.61 percent to 7.23 percent.

In 2017, amounts reported as changes of assumptions resulted from adjustment of the discount rate from 7.23 percent to 6.91 percent.

In 2018, amounts reported as changes of assumptions resulted from adjustment of the discount rate from 6.91 percent to 7.38 percent.

In 2020, amounts reported as changes of assumptions resulted from adjustment of the discount rate from 7.38 percent to 7.06 percent.

In 2021, amounts reported as changes of assumptions resulted from adjustment of the discount rate from 7.06 percent to 6.50 percent.

Note: Great Lakes Water Authority is required to present the last ten fiscal years of data; however, accounting standards allow the presentation of as many years as are available until ten fiscal years are presented.



**SUPPLEMENTARY INFORMATION** 



COMBINING SCHEDULE OF NET POSITION - WATER FUND As of June 30, 2022

		Water Operations Fund		Water provement and tension Fund	_	Water Construction Fund		Total Water Fund
Assets								
Current Assets								
Cash and cash equivalents	\$	94,861,553	\$	29,192,915	\$	23,136,552	\$	147,191,020
Restricted cash and cash equivalents		34,834,402		-		14,235,345		49,069,747
Restricted cash for the benefit of DWSD		11,371,285		-		-		11,371,285
Investments		26,195,404		65,304,455		-		91,499,859
Restricted investments		30,711,544		-		-		30,711,544
Receivables								
Billed		54,169,640		-		-		54,169,640
Unbilled		30,349,758		-		-		30,349,758
Other		295,791		-		-		295,791
Allowance for doubtful accounts		(13,917,234)		-		-		(13,917,234)
Due from other governments		11,246,188		-		-		11,246,188
Due from other funds		-		1,543,503		784,583		2,328,086
Due from other water funds		-		3,972,809		399,496		4,372,305
Contractual obligation receivable		18,126,021		-		-		18,126,021
Prepaid items and other assets		8,611,410		90,077		-		8,701,487
Total Current Assets	_	306,855,762	_	100,103,759	_	38,555,976		445,515,497
Noncurrent Assets								
Restricted cash and cash equivalents		2,773,291		-		-		2,773,291
Restricted investments		9,506,991		-		-		9,506,991
Contractual obligation receivable		549,493,189		-		-		549,493,189
Prepaid lease		11,250,000		-		-		11,250,000
Assets not subject to depreciation or amortization		567,414,021		-		-		567,414,021
Capital assets being depreciated, net		1,293,659,589		-		-	•	1,293,659,589
Intangible assets, net		90,652,709		-		-		90,652,709
Prepaid insurance on debt		6,649,782		-		-		6,649,782
Total noncurrent assets	_	2,531,399,572	_	-	_		2	2,531,399,572
Total Assets		2,838,255,334		100,103,759		38,555,976		2,976,915,069
Deferred outflows of resources								
Deferred charge on refunding		41,997,055		-		-		41,997,055
Deferred pension amounts	_	10,810,800						10,810,800
Total Deferred Outflows of Resources		52,807,855		-		_		52,807,855



	Water Operations 	Water Improvement and Extension Fund	Water Construction Fund	Total Water Fund
Liabilities				
Current Liabilities				
Accounts and contracts payable	\$ 21,143,337	\$ 1,805,348	\$ 33,942,086	\$ 56,890,771
Accrued salaries, wages and benefits	1,046,674	-	-	1,046,674
Accrued liabilities	15,261,427	-	-	15,261,427
Due to other governments	17,610,601	-	-	17,610,601
Due to other water funds	4,329,759	42,546	-	4,372,305
Interest payable	36,398,995	-	-	36,398,995
Current portion of:				
Revenue bonds and loans	40,091,255	-	-	40,091,255
Raw water rights obligatin	2,845,282	-	-	2,845,282
BC Note obligation	203,954	-	-	203,954
Regional system lease	5,686,745	-	-	5,686,745
Other liabilities	3,378,083			3,378,083
Total Current Liabilities	147,996,112	1,847,894	33,942,086	183,786,092
Noncurrent Liabilities				
Revenue bonds and loans	2,359,238,286	-	-	2,359,238,286
Raw water rights obligation	92,515,774	-	-	92,515,774
BC Note obligation	16,338,339	-	-	16,338,339
Regional system lease	400,095,662	-	-	400,095,662
Other liabilities	4,132,979	-	-	4,132,979
Net pension liability	23,379,480			23,379,480
Total Noncurrent Liabilities	2,895,700,520			2,895,700,520
Total Liabilities	3,043,696,632	1,847,894	33,942,086	3,079,486,612
Deferred Inflows of Resources				
Deferred gain on refunding	48,216,421	-	-	48,216,421
Deferred amounts for swap terminations	61,438			61,438
Deferred pension amounts	11,224,189	<u> </u>		11,224,189
Total Deferred Inflows of Resources	59,502,048			59,502,048
Net Position (Deficit)				
Net investment in capital assets	(109,163,683)	-	-	(109,163,683
Restricted for debt service	31,660,045	-	-	31,660,045
Restricted for payment assistance program	5,272,708	-	-	5,272,708
Unrestricted	(139,904,561)	98,255,865	4,613,890	(37,034,806



COMBINING SCHEDULE OF REVENUES, EXPENSES AND CHANGES IN NET POSITION - WATER FUND For the Year Ended June 30, 2022

	Water Operations Fund	Water Improvement and Extension Fund	Water Construction Fund	Total Water Fund
Operating Revenues			_	
Wholesale customer charges	\$ 323,026,213	\$ -	\$ -	\$ 323,026,213
Local system charges Other revenues	21,697,300 234,462	-	-	21,697,300 234,462
Other revenues	234,402		<del></del>	254,402
Total Operating Revenues	344,957,975	<del>-</del>		344,957,975
Operating Expenses				
Operating expenses before depreciation and amortization				
Personnel	44,892,622	-	-	44,892,622
Contractual services	49,143,743	1,540,154	-	50,683,897
Utilities	28,725,292	-	-	28,725,292
Chemicals	7,788,784	-	-	7,788,784
Supplies and other expenses	9,157,367	-	-	9,157,367
Capital program allocation	(1,618,459)	-	-	(1,618,459)
Intergovernmental reimbursements	(1,813,535)			(1,813,535)
Total Operating Expenses Before				
Depreciation and Amortization	136,275,814	1,540,154	-	137,815,968
Depreciation	123,196,027	-	-	123,196,027
Amortization of intangible assets	3,566,664			3,566,664
Total Operating Expenses	263,038,505	1,540,154		264,578,659
Operating Income (Loss)	81,919,470	(1,540,154)		80,379,316
Nonoperating Revenues (Expenses)				
Earnings (loss) on investments	(936,892)	(1,457,077)	32,573	(2,361,396)
Interest on obligations receivable	25,107,207	-	-	25,107,207
Interest expense	(125,086,379)	-	-	(125,086,379)
Amortization of debt related items and cost of issuance	15,610,434	-	-	15,610,434
Legacy pension expense	(4,988,132)	-	-	(4,988,132)
WRAP (Water Residential Assistance Program)	(1,049,908)	-	-	(1,049,908)
Other	388,656	_	-	388,656
Capital outlay	161,296,514	(3,668,396)	(157,628,118)	
Total Nonoperating Revenues (Expenses)	70,341,500	(5,125,473)	(157,595,545)	(92,379,518)
Income (Loss) Before Transfers	152,260,970	(6,665,627)	(157,595,545)	(12,000,202)
Transfer in Transfer out	2,164,216 (49,381,883)	23,739,800 (126,293,770)	149,803,527 (31,890)	175,707,543 (175,707,543)
Change in net position	105,043,303	(109,219,597)	(7,823,908)	(12,000,202)
NET POSITION (DEFICIT), Beginning of Year	(317,178,794)	207,475,462	12,437,798	(97,265,534)
NET POSITION (DEFICIT), END OF YEAR	\$ (212,135,491)	\$ 98,255,865	\$ 4,613,890	<u>\$ (109,265,736)</u>

Note: Transfers in (out) are used for recording financial activity related to borrowing proceeds and MBO requirements.



COMBINING SCHEDULE OF NET POSITION - SEWAGE DISPOSAL FUND As of June 30, 2022

		Sewer Operations Fund		Sewer provement and tension Fund	C	Sewer Construction Fund	Se	Total wage Disposal Fund
Assets	_							
Current Assets								
Cash and cash equivalents	\$	131,968,097	\$	52,493,924	\$	16,002,376	\$	200,464,397
Restricted cash and cash equivalents		30,966,553		11,659		7,596,015		38,574,227
Restricted cash for the benefit of DWSD		9,098,348		-		-		9,098,348
Investments		41,907,950		51,801,283		-		93,709,233
Restricted investments		73,042,550		-		-		73,042,550
Receivables:								
Billed		64,722,773		-		_		64,722,773
Unbilled		24,045,449		_		_		24,045,449
Other		996,875		_		_		996,875
Allowance for doubtful accounts		(42,906,498)		_		_		(42,906,498)
Due from other governments		1,916,727		291,545		_		2,208,272
Due from other sewage disposal funds		-		1,156,547		266,181		1,422,728
Contractual obligation receivable		15,403,674		_		_		15,403,674
Prepaid items and other assets		4,751,569		169,329		_		4,920,898
Inventories		8,366,771		-		_		8,366,771
Total Current Assets	_	364,280,838	_	105,924,287		23,864,572	_	494,069,697
Noncurrent assets								
Restricted cash and cash equivalents		2,491,300		_		_		2,491,300
Restricted investments		31,184,328		_		_		31,184,328
Contractual obligation receivable		369,794,921		_		_		369,794,921
Prepaid lease		13,750,000		_		_		13,750,000
Assets not subject to depreciation or amortization		320,526,307		_		_		320,526,307
Capital assets being depreciated, net		2,138,777,595		_		_	:	2,138,777,595
Intangible assets, net		3,993,977						3,993,977
Prepaid insurance on debt		10,124,011		_		_		10,124,011
Total Noncurrent Assets	_	2,890,642,439	_	-	_	-		2,890,642,439
Total Assets		3,254,923,277		105,924,287	_	23,864,572	_ ;	3,384,712,136
Deferred Outflows of Resources								
Deferred charge on refunding		110,341,248		-		-		110,341,248
Deferred pension amounts	_	19,347,900	_	<u>-</u>	_		_	19,347,900
Total Deferred Outflows of Resources	_	129,689,148						129,689,148



	0	Sewer perations Fund		Sewer provement and tension Fund	Sewer Construction Fund		Sev	Total vage Disposal Fund
Liabilities								
Current Liabilities								
Accounts and contracts payable	\$	16,174,427	\$	2,013,533	\$	19,300,303	\$	37,488,263
Accrued salaries, wages and benefits		1,013,356		-		-		1,013,356
Accrued liabilities		9,743,206		-		_		9,743,206
Due to other governments		3,750,000		-		-		3,750,000
Due to other funds		15,877		1,633,450		678,759		2,328,086
Due to other sewage disposal funds		1,417,359		5,369		· _		1,422,728
Interest payable		34,566,553		_		_		34,566,553
Current portion of:		- 1,,						- 1, ,
Revenue bonds and loans		87,312,545		_		_		87,312,545
BC Note obligation		458,756		_		_		458,756
Regional system lease		6,950,466		_		_		6,950,466
Other liabilities		3,435,863		_		_		3,435,863
Total Current Liabilities		164,838,408		3,652,352		19,979,062		188,469,822
	-	,,	-	-,,,,,,,			-	,,
Noncurrent Liabilities								
Revenue bonds and loans	2,	790,722,856		-		-	2	,790,722,856
BC Note obligation		36,750,113		-		-		36,750,113
Regional system lease		489,005,809		-		-		489,005,809
Other liabilities		16,989,290		-		-		16,989,290
Net pension liability		41,841,847		<u>-</u>		<u>-</u>		41,841,847
Total Noncurrent Liabilities	3,	375,309,915	_				3	,375,309,915
Total Liabilities	3,	540,148,323		3,652,352		19,979,062	_3	,563,779,737
Deferred Inflows of Resources								
Deferred gain on refunding		40,566,648		_		_		40,566,648
Deferred amounts for swap terminations		457		_		_		457
Deferred pension amounts		20,087,733		-		-		20,087,733
Total Deferred Inflows of Resources		60,654,838		<u>-</u>		<u>-</u>		60,654,838
Net Position (Deficit)								
Net investment in capital assets		(85,551,623)		_		_		(85,551,623)
Restricted for debt service		91,754,608		_		_		91,754,608
Restricted for payment assistance program		7,045,715		_		_		7,045,715
Unrestricted	(;	229,439,436)		102,271,935		3,885,510		(123,281,991 <u>)</u>
TOTAL NET POSITION	<b>\$</b> (2	216,190,736)	\$	102,271,935	\$	3,885,510	\$	(110,033,291)



COMBINING SCHEDULE OF REVENUES, EXPENSES AND CHANGES IN NET POSITION - SEWAGE DISPOSAL FUND For the Year Ended June 30, 2022

One are time. Provided		Sewer Operations Fund	Sewer Improvement and Extension Fund	Sewer Constructio Fund	n	Total Sewage Disposal Fund
Operating Revenues	•	000 040 000	•			
Wholesale customer charges	\$	268,813,369	\$ -	\$	-	\$ 268,813,369
Local system charges		188,662,200	-		-	188,662,200
Industrial waste charges		8,300,278	-		-	8,300,278
Pollutant surcharges Other revenues		5,181,816 429,491	-		-	5,181,816 429,491
	_	,			_	
Total Operating Revenues	_	471,387,154			_	471,387,154
Operating Expenses						
Operating expenses before depreciation and amortization						
Personnel		62,160,768	-		-	62,160,768
Contractual services		58,570,159	4,839,950		-	63,410,109
Utilities		30,930,459	-		-	30,930,459
Chemicals		12,593,379	-		-	12,593,379
Supplies and other expenses		19,911,985	-		-	19,911,985
Capital program allocation		(1,013,677)	-		-	(1,013,677)
Intergovernmental reimbursements	_	(771,355)	(302,991)	-		(1,074,346)
Total Operating Expenses Before						
Depreciation and Amortization		182,381,718	4,536,959		-	186,918,677
Depreciation		158,013,629	-		-	158,013,629
Amortization of intangible assets	_	439,704		-		439,704
Total Operating Expenses		340,835,051	4,536,959		_	345,372,010
Operating Income (Loss)		130,552,103	(4,536,959)			126,015,144
Nonoperating Revenues (Expenses)						
Earnings (loss) on investments		(2,172,598)	(877,209)	26,9	925	(3,022,882)
Interest on shortfall and obligations receivable		17,157,558	-		-	17,157,558
Interest expense		(131,110,125)	-		-	(131,110,125)
Amortization of debt related items and cost of issuance		(2,292,419)	-		-	(2,292,419)
Legacy pension expense		(8,927,171)	-		-	(8,927,171)
WRAP (Water Residential Assistance Program)		(1,742,929)	-		-	(1,742,929)
Other Capital outlay		(234,915) 73,228,981	(8,080,463)	(65,148,5	-	(234,915)
· •	_					(100, 170, 000)
Total Nonoperating Revenues (Expenses)	_	(56,093,618)	(8,957,672)	(65,121,5	93)	(130,172,883)
Income (Loss) Before Transfers and Capital Contributions		74,458,485	(13,494,631)	(65,121,5	593)	(4,157,739)
Transfer in		1,463,926	42,964,809	57,560,9	808	101,989,643
Transfer out		(52,380,023)	(49,583,145)			(101,989,643)
Capital Contributions	_	6,991,039	<u> </u>			6,991,039
Change in net position		30,533,427	(20,112,967)	(7,587,1	160)	2,833,300
NET POSITION (DEFICIT), Beginning of Year		(246,724,163)	122,384,902	11,472,6	<u> 870</u>	(112,866,591)
NET POSITION (DEFICIT), END OF YEAR	\$	(216,190,736)	\$ 102,271,935	\$ 3,885,5	510	\$ (110,033,291)

Note: Transfers in (out) are used for recording financial activity related to borrowing proceeds and MBO requirements.



SCHEDULE OF INTERFUND RECEIVABLES AND PAYABLES For the Year Ended June 30, 2022

Interfund balances result from the time lag between the dates interfund goods and services are provided or reimbursable expenditures occur and when the payment between funds are made. Interfund balances for the year ended June 30, 2022 consisted of the following:

		Sewage Disposal Fund due to Water Fund										
	;	Sewer	Sewe	er Improvement		Sewer						
	Opera	tions Fund	and E	Extension Fund	Const	ruction Fund		Total				
Water Operations Fund Water Improvement and Extension Fund Water Construction Fund	\$	- - 15,877	\$	1,543,503 89,947	\$	- - 678,759	\$	1,543,503 784,583				
TOTALS	\$	15,877	\$	1,633,450	\$	678,759	\$	2,328,086				



# SCHEDULE OF OPERATING EXPENSES FOR WATER OPERATIONS FUND - BUDGET TO ACTUAL For the Year Ended June 30, 2022

Operating Expenses		ginal dget		Amended Budget	Administrative and Centralized Services Reclassification		Final Amended Budget			Actual		Variance ver (Under) ended Budget	Percent Over (Under) Amended Budget
Personnel	\$ 76	,206,731	\$	74,108,755	\$	(26,939,300)	\$	47,169,455	\$	44,892,622	\$	(2,276,833)	-4.83%
Contractual services		,082,220	*	84,543,809	Ψ	(34,770,100)	*	49,773,709	*	49,143,743	*	(629,966)	-1.27%
Utilities		,914,388		28,986,600		(180,800)		28,805,800		28,725,292		(80,508)	-0.28%
Chemicals		,662,600		7,409,400		-		7,409,400		7,788,784		379,384	5.12%
Supplies and other expenses		,591,026		19,809,247		(7,953,800)		11,855,447		9,157,367		(2,698,080)	-22.76%
Capital program allocation		,178,251)		(1,695,851)		-		(1,695,851)		(1,618,459)		77,392	-4.56%
Intergovernmental reimbursements	,	,547,600)		(2,430,800)		_		(2,430,800)		(1,813,535)		617,265	-25.39%
Centralized services allocation	,	,819,100)		(51,466,900)		51,466,900		-		-		· -	0.00%
Administrative services allocation	(17	,509,300)		(19,470,300)		19,470,300		_		_		-	0.00%
Unallocated reserve	`4	,531,086		4,139,840		(1,254,000)		2,885,840		<u>-</u>		(2,885,840)	-100.00%
Total operating expenses before depreciation and amortization financial reporting basis	143	,933,800		143,933,800		(160,800)		143,773,000		136,275,814		(7,497,186)	
SBITA [1]						160,800		160,800	_	160,753		(47)	0.00%
TOTAL OPERATING EXPENSES BUDGET BASIS	\$ 143	,933,800	\$	143,933,800	\$	<u>-</u>	\$	143,933,800	\$	136,436,567	\$	(7,497,233)	-5.21%

Note: Centralized and administrative services allocations have been applied to the expense categories above for presentation of the amended budget to the actual amounts.

<sup>[1]</sup> The subscription based information technology arrangements (SBITA) costs are an expense for budget purposes. These costs are capitalized under GASB 96 for financial reporting purposes. See Note 2 in the Notes to Supplementary Information.



# SCHEDULE OF OPERATING EXPENSES FOR SEWER OPERATIONS FUND - BUDGET TO ACTUAL For the Year Ended June 30, 2022

		Original Budget	Amended Budget		Administrative and Centralized Services		Final Amended Budget		Actual		Variance Over (Under) Amended Budge		Percent Over (Under) Amended Budget
Operating Expenses													
Personnel	\$	39,230,515	\$	37,759,795	\$	26,939,300	\$	64,699,095	\$	62,160,768	\$	(2,538,327)	-3.92%
Contractual services		23,293,638		26,654,738		34,770,100		61,424,838		58,570,159		(2,854,679)	-4.65%
Utilities		23,483,693		30,396,593		180,800		30,577,393		30,930,459		353,066	1.15%
Chemicals		9,381,700		12,432,900		-		12,432,900		12,593,379		160,479	1.29%
Supplies and other expenses		15,968,536		15,224,536		7,312,600		22,537,136		19,911,985		(2,625,151)	-11.65%
Capital program allocation		(1,292,697)		(988,397)		-		(988,397)		(1,013,677)		(25,280)	2.56%
Intergovernmental reimbursements		(344,900)		(771,360)		-		(771,360)		(771,355)		5	0.00%
Centralized services allocation		51,819,100		51,466,900		(51,466,900)		-		-		-	0.00%
Administrative services allocation		17,509,300		19,470,300		(19,470,300)		-		-		-	0.00%
Unallocated reserve		2,250,915		262,595	_	1,254,000		1,516,595				(1,516,595)	-100.00%
Total operating expenses before depreciation and amortization financial reporting basis		181,299,800		191,908,600		(480,400)		191,428,200		182,381,718		(9,046,482)	
SBITA [1]		_		_		160,800		160,800		160,753		(47)	0.00%
Warehouse lease [1]		<u>-</u>	_	<u>-</u>	_	319,600	_	319,600	_	319,584		(16)	-0.01%
TOTAL OPERATING EXPENSES BUDGET BASIS	<u>\$</u>	181,299,800	\$	191,908,600	\$	<u> </u>	\$	191,908,600	\$	182,862,055	\$	(9,046,545)	-4.71%

Note: Centralized and administrative services allocations have been applied to the expense categories above for presentation of the amended budget to the actual amounts.

<sup>[1]</sup> The subscription based information technology arrangements (SBITA) costs are an expense for budget purposes. These costs are capitalized under GASB 96 for financial reporting purposes. See Note 2 in the Notes to Supplementary Information.

<sup>[2]</sup> The warehouse lease is an expense for budget purposes. For financial reporting it is accounted for under GASB 87. See Note 2 in the Notes to Supplementary Information.



SCHEDULE OF OPERATING EXPENSES FOR COMBINED WATER AND SEWER OPERATIONS FUNDS - BUDGET TO ACTUAL For the Year Ended June 30, 2022

	Final							Variance	Percent	
	Original		Amended				C	over (Under)	Over (Under)	
	Budget		Budget			Actual	Am	ended Budget	Amended Budget	
Operating Expenses										
Personnel	\$	115,437,246	\$	111,868,550	\$	107,053,390	\$	(4,815,160)	-4.30%	
Contractual services		103,375,858		111,198,547		107,713,902		(3,484,645)	-3.13%	
Utilities		50,398,081		59,383,193		59,655,751		272,558	0.46%	
Chemicals		16,044,300		19,842,300		20,382,163		539,863	2.72%	
Supplies and other expenses		38,559,562		34,392,583		29,069,352		(5,323,231)	-15.48%	
Capital program allocation		(3,470,948)		(2,684,248)		(2,632,136)		52,112	-1.94%	
Intergovernmental reimbursements		(1,892,500)		(3,202,160)		(2,584,890)		617,270	-19.28%	
Centralized services allocation		-		-		-		-	0.00%	
Administrative services allocation		-		-		-		-	0.00%	
Unallocated reserve		6,782,001		4,402,435	_	<u> </u>		(4,402,435)	-100.00%	
Total operating expenses before depreciation and amortization financial reporting basis		325,233,600		335,201,200		318,657,532		(16,543,668)		
SBITA		_		321,600		321,506		(94)	0.00%	
Warehouse lease		<u>-</u>	_	319,600	_	319,584		<u>(16</u> )	-0.01%	
TOTAL OPERATING EXPENSES	Φ.	205 222 222	Φ.	225 040 402	•	240 000 000	•	(40 540 770)	4.000/	
BUDGET BASIS	\$	325,233,600	\$	335,842,400	\$	319,298,622	\$	(16,543,778)	-4.93%	



SCHEDULE OF REVENUE REQUIREMENTS
BUDGET TO ACTUAL - WATER OPERATIONS
For the Year Ended June 30, 2022

The Great Lakes Water Authority Board adopts a budget using a revenue requirements method for its operating funds that aligns with water and wastewater revenue charges. This method applies an accrual basis of accounting for revenues and operating expenses in addition to a cash basis of accounting for other commitments, such as debt service, Detroit General Retirement closed pension commitment, lease payment, reserves and certain other payments. The schedule below presents the Board adopted budgeted, adjusted for amendments, for comparison with actual revenues, expenses, and other payments. Overall, Water Operations experienced a positive variance of approximately \$8.2 million.

					Variance
	2022			0	ver (Under)
	Adopted	2022 Amended	2022		Amended
	Budget	Budget	Actual		Budget
Revenues					
Revenue from charges					
Suburban wholesale customers [1]	\$ 321,110,900	\$ 315,010,900	\$ 316,529,785	\$	1,518,885
Local system charges	21,697,300	21,697,300	21,697,300		<u>-</u>
Total revenue from charges	342,808,200	336,708,200	338,227,085		1,518,885
Other revenue [2]	175,000	684,400	775,537		91,137
Investment earnings [3]	1,047,300	1,923,800	1,945,613		21,813
Total Revenues	\$ 344,030,500	\$ 339,316,400	\$ 340,948,235	\$	1,631,835
Revenue Requirements					
Operations and maintenance [4]	\$ 143,933,800	\$ 143,933,800	\$ 136,436,567	\$	(7,497,233)
General Retirement System legacy pension	6,048,000	6,048,000	6,048,000		-
Debt service	135,481,000	135,121,000	136,039,760		918,760
General Retirement System accelerated pension	6,268,300	6,268,300	6,268,300		-
Water Residential Assistance Program contribution	1,705,500	1,705,500	1,705,500		-
Regional system lease	22,500,000	22,500,000	22,500,000		-
Transfer to the Improvement & Extension Fund	28,093,900	23,739,800	23,739,800		<u>-</u>
Total Revenue Requirements	\$ 344,030,500	\$ 339,316,400	\$ 332,737,927	\$	(6,578,473)
Revenue Requirement Variance	\$ -	\$ -	\$ 8,210,308	\$	8,210,308

- [1] Revenue from Charges Suburban Wholesale Customers presented in this schedule differs from those presented on the Statement of Revenues, Expenses and Changes in Net position due to \$6,496,428 of revenue which was credited for the KWA debt service which is a non-cash transaction that is the payment obligation on the raw water rights.
- [2] Other Revenue includes other operating revenues and other nonoperating revenues for the Water Operations Fund. Numbers will not match combining schedules as other nonoperating is net of income and expenses.
- [3] Investment earnings excludes earnings on bond proceeds in the construction fund. As required by the Master Bond Ordinance, investment earnings on bond proceeds will remain in the Construction Fund. There were no bond proceeds remaining in the construction fund during the current fiscal year.
- [4] See the Schedule of Operating Expenses for Water Operations Budget to Actual. Operations and Maintenance expenses in this schedule are based on activities relating only to the Water Operations Fund.



SCHEDULE OF REVENUE REQUIREMENTS
BUDGET TO ACTUAL - SEWAGE DISPOSAL OPERATIONS
For the Year Ended June 30, 2022

The Great Lakes Water Authority Board adopts a budget using a revenue requirements method for its operating funds that aligns with water and wastewater revenue charges. This method applies an accrual basis of accounting for revenues and operating expenses in addition to a cash basis of accounting for other commitments, such as debt service, Detroit General Retirement closed pension commitment, lease payment, reserves and certain other payments. The schedule below presents the Board adopted budgeted, adjusted for amendments, for comparison with actual revenues, expenses, and other payments. Overall, Sewage Disposal Operations had a positive variance of approximately \$8.5 million.

	2022 Adopted Budget	2022 Amended Budget	2022 Actual	Variance Over (Under) Amended Budget
Revenues	Baagot		, totaa.	Buaget
Revenue from charges				
Suburban wholesale customers	\$ 272,130,000	\$ 268,130,000	\$ 268,813,369	\$ 683,369
Local system charges	188,662,200	188,662,200	188,662,200	-
Industrial waste control	9.024.800	8,324,800	8.300.278	(24,522)
Pollutant surcharges	4,188,900	5,088,900	5,181,816	92,916
Total revenue from charges	474,005,900	470,205,900	470,957,663	751,763
Other revenue [1]	400,000	538.000	817,448	279,448
Investment earnings [2]	1,023,300	1,876,200	1,842,475	(33,725)
Total Revenues	\$ 475,429,200	\$ 472,620,100	\$ 473,617,586	\$ 997,486
Revenue Requirements				
Operations and maintenance [3]	181,299,800	191,908,600	182,862,055	(9,046,545)
General Retirement System legacy pension	10,824,000	10,824,000	10,824,000	· _
Debt service	207,209,500	204,984,500	206,490,151	1,505,651
General Retirement System accelerated pension	11,620,700	11,620,700	11,620,700	-
Water Residential Assistance Program contribution	2,358,300	2,358,300	2,358,300	-
Regional system lease	27,500,000	27,500,000	27,500,000	-
Transfer to the Improvement & Extension Fund [4]	34,616,900	23,424,000	23,424,000	
Total Revenue Requirements	\$ 475,429,200	\$ 472,620,100	\$ 465,079,206	\$ (7,540,894)
Revenue Requirement Variance	<u>\$</u> _	<u>\$</u>	\$ 8,538,380	\$ 8,538,380

- [1] Other revenue includes other operating revenues and other nonoperating revenues for the Sewer Operations Fund. Amounts will not match combining schedules as other nonoperating is net of income and expenses.
- [2] Investment earnings excludes earnings on bond proceeds in the construction fund. As required by the Master Bond Ordinance, investment earnings on bond proceeds will remain in the Construction Fund. There were no bond proceeds remaining in the construction fund during the current fiscal year.
- [3] See the Schedule of Operating Expenses for Sewage Disposal Operations Budget to Actual. Operations and Maintenance expenses in this schedule are based on activities relating only to the Sewer Operations Fund.
- [4] DWSD shortfall receivable payments are transferred directly to the Improvement & Extension Fund. They are excluded from this schedule because they are not part of the revenue requirement methodology used to set charges.



# SCHEDULE OF REVENUE REQUIREMENTS TO STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION CROSSWALK

For the Year Ended June 30, 2022

The Great Lakes Water Authority establishes a Revenue Requirements budget for the purpose of establishing charges for services which follows a modified cash basis of accounting. Conversely, the annual financial report is prepared in accordance with Generally Accepted Accounting Principles for enterprise funds of a local government. Because the budget and the financial report are prepared using different bases of accounting, a crosswalk is prepared to reconcile fiscal year financial performance from the budget basis of accounting to the financial statement basis of accounting. Key areas of reconciliation include the following:

- Defined Benefit Pension related to the City of Detroit General Employees Retirement System. Annual
  contributions are an expense for the budget basis while the accrual basis financial report reflects the current year
  payment as a deferred outflow.
- Debt Service, BC Note obligation and Regional system lease (principal and interest) are an expense for the budget basis while the accrual basis financial report treats interest as an expense and principal payments as a reduction of a liability.
- GASB 87 & GASB 96 items are expenses for budget purposes but are capitalized and amortized for financial reporting purposes.
- Contributions to the Regional System Improvement & Extension Fund are an expense for the budget basis while the accrual basis financial report treats this activity as an increase in assets.
- Depreciation and amortization are not a components of the budget basis while the accrual basis financial report treats these as an expense.

trouto triose do diri experise.	Water Fund		Sewage Disposal Fund			otal Business- ype Activities
Revenue Requirement Variance from Schedule of Revenue Requirements	\$	8,210,308	\$	8,538,380	\$	16,748,688
Budgetary adjustments to financial reporting basis						
Pension delayed accounting election adjustments:						
Current year pension payments recorded as deferral		10,810,800		19,347,900		30,158,700
Prior year pension deferral accounted for in current year		(4,988,132)		(8,927,171)		(13,915,303)
Administrative fee prepaid adjustment		467,582		836,825		1,304,407
Debt service		57,501,353		114,864,801		172,366,154
BC Note obligation		194,233		436,916		631,149
Regional system lease		5,473,835		6,690,241		12,164,076
GASB 87 & GASB 96 adjustments		160,753		350,345		511,098
Water Residential Assistance Program (WRAP)		655,592		615,371		1,270,963
Improvement & Extension fund transfers		23,739,800		23,424,000		47,163,800
Nonbudgeted financial reporting adjustments						
Depreciation and amortization		(126,762,691)		(158,453,333)		(285,216,024)
Amortization - debt related		15,610,434		(2,292,419)		13,318,015
Improvement & Extension operating expenses		(1,540,154)		(4,536,959)		(6,077,113)
Gain (loss) on disposal of capital assets		9,999		(332,197)		(322,198)
Raw water rights obligation		2,763,095		-		2,763,095
Investment earnings on bond funds in construction fund		-		-		-
Interest on DWSD note receivable		-		144,918		144,918
Investment earnings unrealized gain (loss)		(4,307,009)		(4,865,357)		(9,172,366)
Capital contribution		<u> </u>	_	6,991,039	_	6,991,039
Change in Net Position per Statement of Revenues,						
Expenses and Changes in Net Position	\$	(12,000,202)	\$	2,833,300	\$	(9,166,902)



# WATER IMPROVEMENT AND EXTENSION FUND - BUDGET TO ACTUAL For the Year Ended June 30, 2022

The Great Lakes Water Authority Board adopts a budget for the uses of the Improvement & Extension Funds. The schedule below presents the Board adopted budget, adjusted for amendments, for comparison with actual activity in the Water I&E Fund. The Water I&E Fund experienced a decrease of \$109.2 million in net position which represents use of I&E funds reserved from prior years. This was expected as it aligns with the capital funding strategy. The system experienced a positive budget variance of approximately \$20.3 million.

		Adopted Budget	Amended Budget	Actual [3]	_	Variance Over (Under) Amended Budget
Inflows						
Revenue transfers	\$	28,093,900	\$ 23,739,800	\$ 23,739,800	\$	_
Investment earnings [1]		-	1,329,000	1,335,993		6,993
Total Inflows		28,093,900	25,068,800	 25,075,793		6,993
Outflows			4.500.000	4.540.454		40.454
Capital spending other (net operating expenses)		47,000,000	1,500,000	1,540,154		40,154
CASE 06 transfer to an arcting fund [2]		17,006,600	6,288,092	3,668,396		(2,619,696)
GASB 96 transfer to operating fund [2]		-	1 220 000	253,171		253,171
Investment earnings transfer out [1]		-	1,329,000	1,879,155		550,155
Revenue financed capital - transfer to Water Construction Fund		108,308,000	 142,635,308	124,161,444		(18,473,864)
Total Outflows		125,314,600	151,752,400	 131,502,320		(20,250,080)
Net Increase (Decrease) - Budget Basis	\$	(97,220,700)	\$ (126,683,600)	(106,426,527)	\$	20,257,073
Non-budgeted inflows (outflows)				(0.700.070)		
Unrealized net decrease in fair value of investmen	ts			 (2,793,070)		
Combining Schedule Water I&E Fund Change in	Net	Position [3]		\$ (109,219,597)		

<sup>[1]</sup> As required by the Master Bond Ordinance, investment earnings on I&E funds are transferred to the receiving fund on a monthly basis.

<sup>[2]</sup> The subscription based information technology arrangements (SBITA) costs are an expense for budget purposes. These costs are capitalized under GASB 96 for financial reporting purposes, therefore they are shown as a transfer out to the operating fund for this analysis. See Note 2 in the Notes to Supplementary Information.

<sup>[3]</sup> See the Combining Schedule of Revenues, Expenses and Changes in Net Position - Water Fund. Information in this schedule is based on activity in the Water Improvement and Extension Fund.



# SEWER IMPROVEMENT AND EXTENSION FUND - BUDGET TO ACTUAL For the Year Ended June 30, 2022

The Great Lakes Water Authority Board adopts a budget for the uses of the Improvement & Extension Funds. The schedule below presents the Board adopted budget, adjusted for amendments, for comparison with actual activity in the Sewer I&E Fund. Overall, the Sewer I&E Fund experienced a decrease of \$20.1 million in net position which represents use of I&E funds reserved from prior years. This was expected as it aligns with the capital funding strategy. The system experienced a positive budget variance of approximately \$20.1 million.

	Adopted Budget	Amended Budget	Actual [3]	Variance Over (Under) Amended Budget
Inflows Revenue transfers Receipt of DWSD shortfall receivable payments Investment earnings [1]	\$ 34,616,900 406,400	\$ 23,424,000 144,900 1,004,900	8,441,496	\$ - 8,296,596 (149,658)
Total Inflows	35,023,300	24,573,800	32,720,738	8,146,938
Outflows Capital spending other (net operating expenses) Capital outlay GASB 96 transfer to operating fund [2] Investment earnings transfer out [1] Revenue financed capital - transfer to Sewer Construction Fund Total Outflows	15,965,100 - - 47,546,000 63,511,100	722,200 9,137,700 - 1,004,900 63,279,200 74,144,000	8,080,463 560,971 876,480 48,145,694	3,814,759 (1,057,237) 560,971 (128,420) (15,133,506) (11,943,433)
Net Increase (Decrease) - Budget Basis	\$ (28,487,800)	\$ (49,570,200	(29,479,829)	\$ 20,090,371
Non-budgeted inflows (outflows) Transfer for FY 2020 DWSD shortfall [4] Unrealized net decrease in fair value of investmen Other transfers in			10,817,815 (1,732,451) 281,498	
Combining Schedule Sewer I&E Fund Change in	Net Position [3]		\$ (20,112,967)	

- [1] As required by the Master Bond Ordinance, investment earnings on I&E funds are transferred to the receiving fund on a monthly basis.
- [2] The subscription based information technology arrangements (SBITA) costs are an expense for budget purposes. These costs are capitalized under GASB 96 for financial reporting purposes, therefore they are shown as a transfer out to the operating fund for this analysis. See Note 2 in the Notes to Supplementary Information.
- [3] See the Combining Schedule of Revenues, Expenses and Changes in Net Position Sewage Disposal Fund. Information in this schedule is based on activity in the Sewer Improvement and Extension Fund.
- [4] Pursuant to the 2018 Memorandum of Understanding dated June 27, 2018, DWSD budget shortfalls not cured by the end of the following year in which they arise shall be repaid in installments plus a surcharge. DWSD experienced a \$10.2 million budget shortfall in FY 2020 that was cured in FY 2021. Those amounts were transferred to the I&E Fund in FY 2022.



WATER CONSTRUCTION FUND - BUDGET TO ACTUAL For the Year Ended June 30, 2022

The Great Lakes Water Authority Board adopts a budget for the use of the Construction Funds. The schedule below presents the Board adopted budget, adjusted for amendments, for comparison with actual activity in the Water Construction Fund. The Water Construction Fund had a decrease of \$7.8 million in net position which represents use of construction funds from prior periods. This was expected as it aligns with the capital funding strategy. They system experienced a negative budget variance of approximately \$7.8 million.

		Adopted Budget		Amended Budget		Actual [2]	_	Variance Over (Under) Amended Budget
Inflows								
Transfers from Water Improvement & Extension Fund State revolving loans Investment earnings [1]	\$	108,308,000 26,100,000 -	\$	142,635,300 27,000,000 -	\$	124,161,444 25,642,083 32,093	\$	(18,473,856) (1,357,917) 32,093
Total Inflows		134,408,000		169,635,300	_	149,835,620		(19,799,680)
Outflows Investment earnings transfer out [1]		_				31,890		31,890
Capital projects		134,408,000		169,635,300		157,628,118		(12,007,182)
Total Outflows		134,408,000		169,635,300		157,660,008		(11,975,292)
Net Increase (Decrease) - Budget Basis	\$		\$			(7,824,388)	\$	(7,824,388)
Non-budgeted inflows (outflows) Unrealized net increase in fair value of investments						480		
Combining Schedule Water Construction Fund Change	ge i	n Net Position [	[2]		\$	(7,823,908)		

<sup>[1]</sup> As required by the Master Bond Ordinance investment earnings on I&E funds are transferred to the receiving fund on a monthly basis. Any earnings on bond proceeds will remain in the Construction Fund. There were no bond proceeds remaining in the construction fund during the current fiscal year.

<sup>[2]</sup> See the Combining Schedule of Revenues, Expenses and Changes in Net Position - Water Fund. Information in this schedule is based on activity in the Water Construction Fund.



SEWER CONSTRUCTION FUND - BUDGET TO ACTUAL For the Year Ended June 30, 2022

The Great Lakes Water Authority Board adopts a budget for the use of the Construction Funds. The schedule below presents the Board adopted budget, adjusted for amendments, for comparison with actual activity in the Sewer Construction Fund. The Sewer Construction Fund had a decrease of \$7.6 million in net position which represents use of construction funds from prior periods. This was expected as it aligns with the capital funding strategy. They system experienced a negative budget variance of approximately \$7.6 million.

		Adopted Budget		Amended Budget		Actual [2]		Variance Over (Under) Amended Budget
Inflows								
Transfers from Sewer Improvement & Extension Fund	\$	47,546,000	\$	63,279,200	\$	48,145,694	\$	(15,133,506)
State revolving loans		31,992,000		10,000,000		9,215,214		(784,786)
Transfer from operations fund-proceeds from sale of assets		-		-		200,000		200,000
Investment earnings [1]						26,444		26,444
Total Inflows		79,538,000		73,279,200		57,587,352		(15,691,848)
Total fillows		73,330,000		73,273,200	-	37,007,002	-	(13,031,040)
Outflows								
Investment earnings transfer out [1]		-		-		26,475		26,475
Capital projects		79,538,000		73,279,200		65,148,518		(8,130,682)
Total Outflows		79,538,000		73,279,200		65,174,993		(8,104,207)
Net Increase (Decrease) - Budget Basis	¢	_	•	_		(7,587,641)	\$	(7,587,641)
Net Iliclease (Declease) - Budget Basis	Ψ	<u>-</u>	φ	<u>-</u>		(7,367,041)	φ	(7,367,041)
Non-budgeted inflows (outflows)								
Unrealized net increase in fair value of investments						481		
Combining Schedule Sewage Disposal Construction Fund C	hange	e in Net Positio	on [2]	]	\$	(7,587,160)		

<sup>[1]</sup> As required by the Master Bond Ordinance investment earnings on I&E funds are transferred to the receiving fund on a monthly basis. Any earnings on bond proceeds will remain in the Construction Fund. There were no bond proceeds remaining in the construction fund during the current fiscal year.

<sup>[2]</sup> See the Combining Schedule of Revenues, Expenses and Changes in Net Position - Sewage Disposal Fund. Information in this schedule is based on activity in the Sewer Construction Fund.



SCHEDULE OF DAYS CASH - LIQUIDITY As of June 30, 2022

-							
	2022	2021	2020	2019	2018	2017	2016*
Water Fund							
Cash and investments - Unrestricted	\$ 238,690,879	\$ 353,308,385	\$ 394,440,814	\$ 347,204,928	\$ 317,089,746	\$ 267,335,558	\$ 167,292,572
Operating Expense Operating expense Less: depreciation Less: amortization of	\$ 264,578,659 (123,196,027)	\$ 250,476,297 (123,271,541)	\$ 263,282,730 (127,183,228)	\$ 263,959,730 (140,571,120)	\$ 254,602,752 (143,991,815)	\$ 245,868,861 (144,137,912)	\$ 120,841,204 (71,295,545)
intangible asset	(3,566,664)	(3,566,664)	(3,566,664)	(3,566,664)	(2,080,554)		
Net Operating Expense	\$ 137,815,968	\$ 123,638,092	\$ 132,532,838	\$ 119,821,946	\$ 108,530,383	\$ 101,730,949	\$ 49,545,659
Operating Expense per Day (365 days)	\$ 377,578	\$ 338,734	\$ 363,104	\$ 328,279	\$ 297,344	\$ 278,715	\$ 273,733
Days Cash Number of days cash	632	1,043	1,086	1,058	1,066	959	611
Sewage Disposal Fund							
Cash and investments - Unrestricted	\$ 294,173,630	\$ 323,972,718	\$ 287,464,920	\$ 236,057,128	\$ 208,563,268	\$ 205,179,312	\$ 188,063,375
Operating Expense Operating expense Less: depreciation Less: amortization of	\$ 345,372,010 (158,013,629)	\$ 328,983,415 (150,772,065)	\$ 329,870,427 (152,920,967)	\$ 342,585,175 (168,544,370)	\$ 363,629,987 (187,250,583)	\$ 336,946,731 (185,628,465)	\$ 170,401,050 (86,021,029)
intangible asset	(439,704)	(109,926)	<u>-</u>	<u>-</u>	<u>-</u>		
Net Operating Expense	\$ 186,918,677	\$ 178,101,424	\$ 176,949,460	\$ 174,040,805	\$ 176,379,404	\$ 151,318,266	\$ 84,380,021
Operating Expense per Day (365 days)	\$ 512,106	\$ 487,949	\$ 484,793	\$ 476,824	\$ 483,231	\$ 414,571	\$ 466,188
Days Cash Number of days cash	574	664	593	495	432	495	403
Combined							
Cash and investments - Unrestricted	\$ 532,864,509	\$ 677,281,103	\$ 681,905,734	\$ 583,262,056	\$ 525,653,014	\$ 472,514,870	\$ 355,355,947
Operating Expense Operating expense Less: depreciation Less: amortization of	\$ 609,950,669 (281,209,656)	\$ 579,459,712 (274,043,606)	\$ 593,153,157 (280,104,195)	\$ 606,544,905 (309,115,490)	\$ 618,232,739 (331,242,398)	\$ 582,815,592 (329,766,377)	\$ 291,242,254 (157,316,574)
intangible asset	(4,006,368)	(3,566,664)	(3,566,664)	(3,566,664)	(2,080,554)		
Net Operating Expense	\$ 324,734,645	\$ 301,849,442	\$ 309,482,298	\$ 293,862,751	\$ 284,909,787	\$ 253,049,215	\$ 133,925,680
Operating Expense per Day (365 days)	\$ 889,684	\$ 826,985	\$ 847,897	\$ 805,103	\$ 780,575	\$ 693,286	\$ 739,921
Days Cash Number of days cash	599	819	804	724	673	682	480

<sup>\*</sup> GLWA assumed operations on January 1, 2016. Data for 2016 includes six months of operation under GLWA. Operating expense per day for 2016 is computed using 181 days (six months of operations).



NOTES TO SUPPLEMENTARY INFORMATION For the Year Ended June 30, 2022

#### Note 1 – Combining Fund Schedules

The Combining Fund Schedules presented combined the six funds the Authority maintains into the two major funds reported in the Basic Financial Statements, the Water Fund and Sewage Disposal Fund. The following describes the six funds and the purpose of each fund.

**Water Operations Fund** – All water revenues are credited to this fund. All expenses for the operations and maintenance of the water system are paid from this fund. This fund aligns with the operations and maintenance (O&M) expense revenue requirement for establishing service charges.

**Sewer Operations Fund** – All sewer revenues are credited to this fund. All expenses for the operations and maintenance of the wastewater system are paid from this fund. This fund aligns with the operations and maintenance (O&M) expense revenue requirement for establishing service charges.

**Water Improvement & Extension Fund (I&E)** – Amounts that are budgeted in the water revenue requirement to reduce debt financing are transferred to this fund as well as any other water funds that management has determined are available for this use. This fund is used for water system capital outlays and capital improvements. Expenditures under the operating expenses category are expenditures incurred for the betterment of the system, which may lead to capital expenditures but are not necessarily applicable to any current capital improvement.

**Sewer Improvement & Extension Fund (I&E)** – Amounts that are budgeted in the wastewater revenue requirement to reduce debt financing are transferred to this fund as well as any other wastewater funds that management has determined are available for this use. This fund is used for wastewater system capital outlays and capital improvements. Expenditures under the operating expenses category are expenditures incurred for the betterment of the system, which may lead to capital expenditures but are not necessarily applicable to any current capital improvement.

**Water Construction Fund** – This fund is used for the proceeds of water debt obligations and investment earnings thereon. I&E funds may also be transferred to this fund when bond proceeds have been exhausted. Funds are used to pay for water system capital improvements in accordance with the debt obligations.

**Sewer Construction Fund** – This fund is used for the proceeds of sewer debt obligations and investment earnings thereon. I&E funds may also be transferred to this fund when bond proceeds have been exhausted. Funds are used to pay for the wastewater system capital improvements in accordance with the debt obligations.



NOTES TO SUPPLEMENTARY INFORMATION For the Year Ended June 30, 2022

#### Note 2 - Budget to Actual Schedules

#### Schedule of Operating Expenses – Budget to Actual

The schedule of operating expenses for the water system operations and the sewage disposal system operations provides the detail of the major expense categories of the operations budget compared to the actual results. The schedule includes the actual operating expenses before depreciation and amortization for the Water Operations Fund and the Sewer Operations Fund reported in the Combining Schedule of Revenues, Expenses and Changes in Net position for the Water Fund and the Sewage Disposal Fund. The Warehouse lease line represents the total lease payments made for the warehouse which is included in the budget as an operating lease. For financial reporting purposes the warehouse payments are treated as a reduction in the lease liability and interest expense (which is a nonoperating expense). The subscription based information technology arrangements (SBITA) payments line represents the payments made for the SBITA's which is included in the budget as a contractual service. For financial reporting purposes these costs have been treated as a prepaid subscription asset as the software is not in service as of June 30, 2022.

#### Schedule of Revenue Requirements – Budget to Actual

The revenue requirements are the basis for GLWA's budget and calculating Member Partner service charges. The revenue requirements are presented to align with the Master Bond Ordinance flow of funds categories. The budget basis reflects revenues and operations and maintenance expenses on an accrual basis adjusted for GASB 87 and GASB 96 as described in the note above, in addition to cash payments for debt service, legacy pension obligations, water residential assistance program and regional system lease related activities.

The revenue requirements basis is foundational to GLWA's daily operations and long-term financial planning. The budget is adopted by the GLWA Board of Directors by resolution. The Board's action establishes the total operations and maintenance budget, total debt service requirements and total capital expenditures for the I&E Fund and Construction Fund for both the Regional Water System and the Regional Sewer System. The legal level of budgetary control is at this level. Administratively, the budget may be modified within these categories. Modifications to the budget beyond those established levels would be presented to the Audit Committee, and subsequently to the Board.

Investment earnings for the budget basis includes the stated interest rate received, amortization of the market discount or premium, and realized gains and losses (calculated for budget purposes as the difference between the selling price and the amortized cost basis). This will vary from the investment earnings reported in the basic financial statements. The main difference is the budget basis does not include unrealized gains and losses (calculated for budget purposes as the difference between the market value and the amortized cost basis).

# Note 3 – Schedule of Revenue Requirements to Statement of Revenues, Expenses and Changes in Net Position Crosswalk

The Great Lakes Water Authority establishes a revenue requirements budget for the purposes of establishing charges, which follows a modified cash basis of accounting. The financial report is prepared in accordance with Generally Accepted Accounting Principles for enterprise funds of a local government. The crosswalk provides a reconcilement between the different basis of accounting used for the budget and the financial report.

# STATISTICAL SECTION



#### STATISTICAL SECTION TABLE OF CONTENTS

The objective of the statistical section is to provide financial statement users with additional historical perspective, context and detail to assist in using the information in the financial statements, notes to financial statements and required supplementary information to understand and assess the Authority's economic condition.

The statistical section information is presented in the following categories:

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Financial Trends Schedules 1 through 2	Financial trends information is intended to show how the Authority's financial position has changed over time.	115
Revenue Capacity Schedules 3 through 7	Revenue capacity information is intended to show the factors affecting the Authority's ability to generate its own-source revenue.	124
Debt Capacity Information Schedules 8 through 12	Debt capacity information is intended to show the Authority's debt burden and its ability to issue additional debt.	130
Demographic and Economic Schedules 13 through 14	Demographic and economic information is intended to show the socioeconomic environment within which the Authority operates.	142
Operating Information Schedules 15 through 17	Operating information is intended to show contextual information about operations and resources to provide understanding and assessing the Authority's economic condition.	144

Sources: Unless otherwise noted, information presented in these schedules was obtained from GLWA's Annual Comprehensive Financial Reports, the prior financial reports of DWSD or other internal information systems.



# SCHEDULE OF NET POSITION - BUSINESS-TYPE ACTIVITIES As of June 30, 2022

	2022	2021	2020	2019	2018	2017	2016
Assets							
Current Assets							
Cash and cash equivalents	\$ 347,655,417	\$ 354,351,132	\$ 208,356,720	\$ 309,015,559	\$ 509,141,777	\$ 470,231,842	\$ 311,735,186
Restricted cash and cash equivalents	87,643,974	151,186,044	65,364,730	164,495,839	105,929,392	132,967,081	134,210,268
Restricted cash for the benefit of DWSD	20,469,633	6,064,197	1,544,529	3,318,316	8,418,827	288,378	62,078
Investments	185,209,092	322,929,971	473,549,014	274,246,497	16,511,237	2,283,028	43,620,761
Restricted investments	103,754,094	31,690,982	117,966,914	34,852,593	33,025,340	32,541,021	56,661,000
Receivables							
Billed	118,892,413	108,247,576	95,159,661	98,886,172	88,712,190	88,694,341	85,676,104
Unbilled	54,395,207	54,387,680	54,893,266	50,441,488	54,429,817	53,818,603	55,345,336
Other	1,292,666	574,906	310,373	1,137,526	3,728,886	3,158,350	114,648,035
Allowance for doubtful accounts	(56,823,732)	(50,884,273)	(44,991,966)	(42,257,915)	(39,084,816)	(35,352,009)	(124,009,242)
Due from other governments	13,454,460	13,240,859	31,802,636	30,243,156	47,927,860	50,789,041	107,688,300
Due from other funds	2,328,086	2,948,712	2,134,191	2,889,522	3,778,220	-	65,971
Contractual obligation receivable	33,529,695	31,195,900	29,661,490	26,418,147	24,813,886	23,339,242	11,929,259
Shortfall receivable - DWSD	-	8,296,578	18,206,431	17,542,669	9,367,355	-	-
Prepaid items and other assets	13,622,385	11,744,542	10,150,336	8,448,932	4,949,631	3,526,568	2,591,049
Inventories	8,366,771	7,795,152	7,007,208	5,832,593	8,471,626	8,509,454	9,984,063
Total Current Assets	933,790,161	1,053,769,958	1,071,115,533	985,511,094	880,121,228	834,794,940	810,208,168
Noncurrent Assets							
Restricted cash and cash equivalents	5,264,591	5,395,501	47,505,584	94,185,040	48,263,059	306,318,331	160,949,722
Restricted investments	40,691,319	38,533,910	39,819,506	150,978,512	293,697,988	101,708,122	105,028,079
Contractual obligation receivable	919,288,110	936,811,819	954,297,909	883,248,672	812,613,943	830,432,680	832,571,741
Shortfall receivable - DWSD	-	, , , <u>-</u>	8,296,578	26,503,010	19,932,645	-	-
Prepaid lease	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	-
Assets not subject to depreciation or amortization	887,940,328	813,485,421	719,865,490	786,405,120	706,046,995	730,471,792	711,434,348
Capital assets being depreciated, net	3,432,437,184	3,546,026,747	3,689,047,120	3,747,783,788	3,984,216,865	4,178,315,045	4,427,945,555
Intangible assets, net	94,646,686	98,653,054	97,786,037	101,352,701	104,919,365	-	-
Prepaid insurance on debt	16,773,793	18,357,442	19,988,764	22,635,151	29,933,631	32,694,221	48,653,581
Total Noncurrent Assets	5,422,042,011	5,482,263,894	5,601,606,988	5,838,091,994	6,024,624,491	6,204,940,191	6,286,583,026
Total Assets	6,355,832,172	6,536,033,852	6,672,722,521	6,823,603,088	6,904,745,719	7,039,735,131	7,096,791,194
Deferred Outflows of Resources							
Deferred charge on refunding	152,338,303	163,387,050	174,435,795	241,879,138	280,975,963	297,646,441	328,659,457
Deferred pension amounts	30,158,700	61,687,252	42,661,204	31,717,285	52,015,636	59,954,478	37,997,043
Total Deferred Outflows of Resources	182,497,003	225,074,302	217,096,999	273,596,423	332,991,599	357,600,919	366,656,500



	2022	2021	2020	2019	2018	2017	2016
Liabilities							
Current Liabilities							
Accounts and contracts payable	\$ 94,379,034	\$ 85,221,415	\$ 74,070,629	\$ 74,662,036	\$ 67,832,136	\$ 64,298,400	\$ 85,626,614
Accrued salaries, wages and benefits	2,060,030	6,028,598	5,321,864	4,284,220	4,734,956	3,190,038	2,887,280
Accrued liabilities	25,004,633	11,573,811	5,357,056	7,109,589	12,679,692	2,252,616	1,550,254
Due to other governments	21,360,601	19,443,993	20,032,254	15,963,934	11,983,407	61,242,386	37,893,903
Due to other funds	2,328,086	2,948,712	2,134,191	2,889,522	3,778,220	-	65,971
Interest payable	70,965,548	71,811,380	58,452,960	84,456,284	80,431,318	80,340,520	81,139,013
Current portion of:							
Revenue bonds and loans	127,403,800	119,909,733	121,998,075	117,602,109	81,756,050	89,314,212	96,552,356
Raw water rights obligation	2,845,282	2,734,246	2,624,820	2,520,996	2,999,458	-	-
BC Note obligation	662,710	631,153	601,097	572,474	545,213	519,251	494,524
Regional system leases	12,637,211	12,121,951	11,627,700	11,153,602	10,698,835	10,262,609	9,844,169
Other liabilities	6,813,946	5,867,203	6,380,583	5,751,747	5,687,043	6,714,210	7,789,273
Total Current Liabilities	366,460,881	338,292,195	308,601,229	326,966,513	283,126,328	318,134,242	323,843,357
Noncurrent Liabilities							
Revenue bonds and loans	5,149,961,142	5,319,896,659	5,474,913,736	5,630,571,800	5,714,095,283	5,842,482,161	5,876,115,822
Raw water rights obligation	92,515,774	95,361,056	98,095,302	100,720,123	103,241,118	-	-
BC Note obligation	53,088,452	53,751,162	54,382,315	54,983,412	55,555,887	56,101,100	56,620,351
Regional system lease	889,101,471	901,738,681	913,860,632	925,488,338	936,641,935	947,340,770	957,603,379
Other liabilities	21,122,269	21,514,839	18,757,906	18,771,285	18,437,517	11,340,902	46,002,543
Net pension liability	65,221,327	144,305,198	132,909,889	131,981,165	178,961,907	194,075,547	170,229,438
Total Noncurrent Liabilities	6,271,010,435	6,536,567,595	6,692,919,780	6,862,516,123	7,006,933,647	7,051,340,480	7,106,571,533
Total Liabilities	6,637,471,316	6,874,859,790	7,001,521,009	7,189,482,636	7,290,059,975	7,369,474,722	7,430,414,890
Deferred Inflows of Resources							
Deferred gain on refunding	88,783,069	96,296,284	103,809,499	108,300,657	105,907,267	112,080,430	-
Deferred amounts for swap terminations	61,895	84,205	106,515	240,839	270,150	299,461	4,373,886
Deferred capital contribution	-	-	5,960,000	-	-	-	-
Deferred pension amounts	31,311,922			<del>_</del>	20,254,690	18,316,430	43,342,798
Total Deferred Inflows of Resources	120,156,886	96,380,489	109,876,014	108,541,496	126,432,107	130,696,321	47,716,684
Net Position (Deficit) [1]							
Net investment in capital assets	(194,715,306)	(302,012,473)	(351,218,780)	(228,867,586)	(49,720,885)	140,378,223	311,166,676
Restricted for debt service	123,414,653	114,544,694	105,282,969	146,977,835	125,235,904	134,125,957	178,591,676
Restricted for payment assistance program	12,318,423	11,043,109	8,988,078	8,001,369	5,771,110	5,336,117	3,504,148
Unrestricted	(160,316,797)	(33,707,455)	15,370,230	(126,936,239)	(260,040,893)	(382,675,290)	(507,946,380)
TOTAL NET POSITION (DEFICIT)	\$ (219,299,027)	<u>\$ (210,132,125)</u>	<u>\$ (221,577,503)</u>	\$ (200,824,621)	<u>\$ (178,754,764)</u>	\$ (102,834,993)	\$ (14,683,880)

<sup>[1]</sup> The classification for net position for 2016 - 2018 have been revised to match the methodology used from 2019 and thereafter.

<sup>\*</sup> GLWA began operations on January 1, 2016. The data for FY 2016 relates to six months of activity through June 30, 2016. This schedule is being built prospectively. Ultimately, 10 years of data will be presented.



SCHEDULE OF NET POSITION - WATER FUND As of June 30, 2022

			0004			00.40		00.40		00.47		00.10
•	2022		2021		2020	2019	_	2018	_	2017	_	2016
Assets												
Current Assets		_					_		_		_	
Cash and cash equivalents	\$ 147,191,020	\$	162,766,427	\$	,,	148,643,793	\$		\$	,,	\$	155,712,891
Restricted cash and cash equivalents	49,069,747		65,677,030		39,304,453	68,564,311		51,097,342		60,753,268		53,028,844
Restricted cash for the benefit of DWSD	11,371,285		3,144,400		1,544,529	2,690,397		8,418,827		288,378		10,430
Investments	91,499,859		190,541,958		305,653,818	198,561,135		7,004,525		852,420		11,579,681
Restricted investments	30,711,544		2,932,400		30,900,352	1,468,148		1,234,954		1,169,187		27,818,000
Receivables												
Billed	54,169,640		48,694,817		38,769,605	38,336,701		38,272,740		36,459,563		37,629,170
Unbilled	30,349,758		30,066,884		31,032,237	26,144,348		29,229,709		29,539,433		32,307,945
Other	295,791		85,494		214,997	916,074		5,850		1,300		21,899,046
Allowance for doubtful accounts	(13,917,234)		(11,562,519)		(8,634,075)	(7,455,747)		(6,221,815)		(4,941,777)		(25,040,612)
Due from other governments	11,246,188		11,889,748		20,343,238	30,063,571		23,588,754		21,327,713		41,486,157
Due from other funds	2,328,086		2,786,344		2,134,191	2,876,954		330,293		-		-
Contractual obligation receivable	18,126,021		16,558,716		15,620,163	14,328,368		13,560,086		12,076,942		6,851,584
Prepaid items and other assets	8,701,487		7,601,239		6,458,613	5,647,661		3,265,972		2,437,047		2,183,690
Inventories			794,521	_	636,621	386,612			_			
Total Current Assets	441,143,192	_	531,977,459	_	572,765,738	531,172,326	_	479,872,458	_	426,446,612	_	365,466,826
Noncurrent Assets												
Restricted cash and cash equivalents	2,773,291		2,519,127		20,491,397	32,154,262		18,261,706		177,939,494		5,460,942
Restricted investments	9,506,991		8,651,762		10,770,585	77,075,423		150,436,225		20,530,374		42,841,345
Contractual obligation receivable	549,493,189		552,093,376		554,942,283	468,481,719		477,039,443		483,604,380		466,317,666
Prepaid lease	11,250,000		11,250,000		11,250,000	11,250,000		11,250,000		11,250,000		-
Assets not subject to depreciation or amortization	567,414,021		498,010,970		418,996,654	467,830,218		434,684,895		452,185,674		415,558,090
Capital assets being depreciated, net	1,293,659,589		1,324,554,087		1,390,129,473	1,390,765,435		1,499,118,693		1,587,291,603		1,728,054,410
Intangible asset - raw water rights, net	90.652.709		94.219.373		97.786.037	101,352,701		104.919.365		-		-
Prepaid insurance on debt	6,649,782		7,304,243		7,958,703	8,754,897		13,002,376		14,112,324		20,831,496
Total Noncurrent Assets	2,531,399,572		2,498,602,938		2,512,325,132	2,557,664,655	_	2,708,712,703	_	2,746,913,849		2,679,063,949
Total Assets	2,972,542,764	_	3,030,580,397	_	3,085,090,870	3,088,836,981	_	3,188,585,161	_	3,173,360,461	_;	3,044,530,775
Deferred Outflows of Resources												
Deferred charge on refunding	41,997,055		44,677,823		47,358,590	82,508,971		94,431,823		99,294,499		116,511,949
Deferred pension amounts	10,810,800		22,112,642	_	15,292,494	11,369,496		18,645,719	_	21,491,506		13,620,562
Total Deferred Outflows of Resources	52,807,855		66,790,465		62,651,084	93,878,467		113,077,542		120,786,005		130,132,511



-							
	2022	2021	2020	2019	2018	2017	2016
Liabilities							
Current Liabilities							
Accounts and contracts payable	\$ 56,890,771	\$ 53,039,330	\$ 43,231,679	36,657,714	\$ 33,754,534	\$ 36,751,842	\$ 49,474,527
Accrued salaries, wages and benefits	1,046,674	4,892,033	5,321,864	4,284,220	4,734,956	3,190,038	2,887,280
Accrued liabilities	15,261,427	6,958,556	5,357,056	6,481,670	12,679,692	1,353,816	875,796
Due to other governments	17,610,601	15,693,993	18,282,254	15,963,934	11,935,868	25,393,813	13,668,890
Due to other funds	-	162,368	-	12,568	3,447,927	-	65,971
Interest payable	36,398,995	36,621,768	30,887,915	40,325,682	39,322,324	39,329,322	37,226,125
Current portion of:							
Revenue bonds and loans	40,091,255	32,500,450	33,058,615	29,244,447	20,569,843	23,393,905	35,650,167
Raw water rights obligation	2,845,282	2,734,246	2,624,820	2,520,996	2,999,458	-	-
BC Note obligation	203,954	194,242	184,992	176,183	167,794	159,803	152,193
Regional system lease	5,686,745	5,454,878	5,232,465	5,019,121	4,814,476	4,618,174	4,429,876
Other liabilities	3,378,083	3,123,843	5,331,161	4,938,308	4,635,565	2,182,888	6,675,228
Total Current Liabilities	179,413,787	161,375,707	149,512,821	145,624,843	139,062,437	136,373,601	151,106,053
Noncurrent Liabilities							
Revenue bonds and loans	2,359,238,286	2,407,391,624	2,459,730,737	2,467,177,447	2,545,529,255	2,606,465,431	2,488,824,632
Raw water rights obligation	92,515,774	95,361,056	98,095,302	100,720,123	103,241,118	-	-
BC Note obligation	16,338,339	16,542,293	16,736,534	16,921,526	17,097,709	17,265,503	17,425,306
Regtional system lease	400.095.662	405.782.406	411.237.284	416.469.750	421.488.871	426.303.346	430.921.520
Other liabilities	4,132,979	4,138,780	4,840,615	4,979,604	4,933,977	5,170,201	9,784,562
Net pension liability	23,379,480	51,728,179	47,643,374	47,310,460	64,151,352	69,569,044	61,021,079
Total Noncurrent Liabilities	2,895,700,520	2,980,944,338	3,038,283,846	3,053,578,910	3,156,442,282	3,124,773,525	3,007,977,099
Total Liabilities	3,075,114,307	3,142,320,045	3,187,796,667	3,199,203,753	3,295,504,719	3,261,147,126	3,159,083,152
Deferred Inflows of Resources							
Deferred gain on refunding	48,216,421	52,250,187	56,283,953	60,317,719	59,252,431	62,822,646	-
Deferred amounts for swap terminations	61,438	66,164	70,890	75,616	80,342	85,068	4,134,908
Deferred pension amounts	11,224,189				7,260,572	6,565,776	15,536,821
Total Deferred Inflows of Resources	59,502,048	52,316,351	56,354,843	60,393,335	66,593,345	69,473,490	19,671,729
Net Position (Deficit) [1]							
Net investment in capital assets	(109,163,683)	(191,352,010)	(237,858,820)	(166,485,092)	(84,133,546)	(2,321,309)	90,778,518
Restricted for debt service	31,660,045	23,688,943	19,479,656	29,731,576	23,239,368	26,194,280	69,797,836
Restricted for payment assistance program	5,272,708	4,614,294	3,754,368	3,369,875	2,462,214	2,218,373	1,451,598
Unrestricted	(37,034,806)	65,783,239	118,215,240	56,502,001	(2,003,397)	(62,565,494)	(166,119,547)
TOTAL NET POSITION (DEFICIT)	\$ (109,265,736)	\$ (97,265,534)	\$ (96,409,556)	\$ (76,881,640)	\$ (60,435,361)	\$ (36,474,150)	\$ (4,091,595)

<sup>[1]</sup> The classification for net position for 2016 - 2018 have been revised to match the methodology used from 2019 and thereafter.

<sup>\*</sup> GLWA began operations on January 1, 2016. The data for FY 2016 relates to six months of activity through June 30, 2016. This schedule is being built prospectively. Ultimately, 10 years of data will be presented.



SCHEDULE OF NET POSITION - SEWAGE DISPOSAL FUND As of June 30, 2022

	2022		2021	2020		2019		2018		2017		2016
Assets												
Current Assets												
Cash and cash equivalents	\$ 200,464,397	\$	191,584,705	\$ 119,569,724	. :	\$ 160,371,766	\$	199,056,556	\$	203,748,704	\$	156,022,295
Restricted cash and cash equivalents Restricted cash for the benefit of DWSD	38,574,227 9,098,348		85,509,014 2,919,797	26,060,277		95,931,528 627,919		54,832,050		72,213,813		81,181,424 51,648
Investments	93,709,233		132,388,013	167,895,196	i	75,685,362		9,506,712		1,430,608		32,041,080
Restricted investments	73,042,550		28,758,582	87,066,562		33,384,445		31,790,386		31,371,834		28,843,000
Receivables												
Billed	64,722,773		59,552,759	56,390,056	i	60,549,471		50,439,450		52,234,778		48,046,934
Unbilled	24,045,449		24,320,796	23,861,029	)	24,297,140		25,200,108		24,279,170		23,037,391
Other	996,875		489,412	95,376	i	221,452		3,723,036		3,157,050		92,748,989
Allowance for doubtful accounts	(42,906,498)		(39,321,754)	(36,357,891	)	(34,802,168)		(32,863,001)		(30,410,232)		(98,968,630)
Due from other governments	2,208,272		1,351,111	11,459,398	,	179,585		24,339,106		29,461,328		66,202,143
Due from other funds	-		162,368	-		12,568		3,447,927		-		65,971
Contractual obligation receivable	15,403,674		14,637,184	14,041,327		12,089,779		11,253,800		11,262,300		5,077,675
Shortfall receivable - DWSD	-		8,296,578	18,206,431		17,542,669		9,367,355		-		-
Prepaid items and other assets	4,920,898		4,143,303	3,691,723		2,801,271		1,683,659		1,089,521		407,359
Inventories	8,366,771		7,000,631	6,370,587		5,445,981		8,471,626	_	8,509,454	_	9,984,063
Total Current Assets	492,646,969		521,792,499	498,349,795		454,338,768		400,248,770	_	408,348,328	_	444,741,342
Noncurrent Assets												
Restricted cash and cash equivalents	2,491,300		2,876,374	27,014,187		62,030,778		30,001,353		128,378,837		155,488,780
Restricted investments	31,184,328		29,882,148	29,048,921		73,903,089		143,261,763		81,177,748		62,186,734
Contractual obligation receivable	369,794,921		384,718,443	399,355,626		414,766,953		335,574,500		346,828,300		366,254,075
Shortfall receivable - DWSD	-		-	8,296,578	;	26,503,010		19,932,645		-		-
Prepaid lease	13,750,000		13,750,000	13,750,000	)	13,750,000		13,750,000		13,750,000		-
Assets not subject to depreciation or amortization	320,526,307		315,474,451	300,868,836		318,574,902		271,362,100		278,286,118		295,876,258
Capital assets being depreciated, net	2,138,777,595	:	2,221,472,660	2,298,917,647		2,357,018,353	2	2,485,098,172	2	2,591,023,442	2	2,699,891,145
Intangible assets, net	3,993,977		4,433,681	-		-		-		-		-
Prepaid insurance on debt	10,124,011		11,053,199	12,030,061		13,880,254		16,931,255	_	18,581,897		27,822,085
Total Noncurrent Assets	2,890,642,439		2,983,660,956	3,089,281,856	<u>.</u> .	3,280,427,339	_ 3	3,315,911,788	_3	3,458,026,342		3,607,519,077
Total Assets	3,383,289,408	;	3,505,453,455	3,587,631,651		3,734,766,107	_3	3,716,160,558	_3	3,866,374,670		1,052,260,419
Deferred Outflows of Resources												
Deferred charge on refunding	110,341,248		118,709,227	127,077,205	;	159,370,167		186,544,140		198,351,942		212,147,508
Deferred pension amounts	19,347,900		39,574,610	27,368,710	<u>.</u> .	20,347,789	_	33,369,917	_	38,462,972	_	24,376,481
Total Deferred Outflows of Resources	129,689,148		158,283,837	154,445,915	<u>.</u> .	179,717,956		219,914,057	_	236,814,914		236,523,989



	2022	2021	2020	2019	2018	2017	2016
Liabilities							
Current Liabilities							
Accounts and contracts payable	\$ 37,488,263	\$ 32,182,085	\$ 30,838,950	\$ 38,004,322	\$ 34,077,602	\$ 27,546,558	\$ 36,152,087
Accrued salaries, wages and benefits	1,013,356	1,136,565	-	-	-	-	-
Accrued liabilities	9,743,206	4,615,255	-	627,919	-	898,800	674,458
Due to other governments	3,750,000	3,750,000	1,750,000	-	47,539	35,848,573	24,225,013
Due to other funds	2,328,086	2,786,344	2,134,191	2,876,954	330,293	-	-
Interest payable	34,566,553	35,189,612	27,565,045	44,130,602	41,108,994	41,011,198	43,912,888
Current portion of:							
Revenue bonds and loans	87,312,545	87,409,283	88,939,460	88,357,662	61,186,207	65,920,307	60,902,189
BC Note obligation	458,756	436,911	416,105	396,291	377,419	359,448	342,331
Regional system lease	6,950,466	6,667,073	6,395,235	6,134,481	5,884,359	5,644,435	5,414,293
Other liabilities	3,435,863	2,743,360	1,049,422	813,439	1,051,478	4,531,322	1,114,045
Total Current Liabilities	187,047,094	176,916,488	159,088,408	181,341,670	144,063,891	181,760,641	172,737,304
Noncurrent Liabilities							
Revenue bonds and loans	2,790,722,856	2,912,505,035	3,015,182,999	3,163,394,353	3,168,566,028	3,236,016,730	3,387,291,190
BC Note obligation	36,750,113	37,208,869	37,645,781	38,061,886	38,458,178	38,835,597	39,195,045
Regional system lease	489,005,809	495,956,275	502,623,348	509,018,588	515,153,064	521,037,424	526,681,859
Other liabilities	16,989,290	17,376,059	13,917,291	13,791,681	13,503,540	6,170,701	36,217,981
Net pension liability	41,841,847	92,577,019	85,266,515	84,670,705	114,810,555	124,506,503	109,208,359
Total Noncurrent Liabilities	3,375,309,915	3,555,623,257	3,654,635,934	3,808,937,213	3,850,491,365	3,926,566,955	4,098,594,434
Total Liabilities	3,562,357,009	3,732,539,745	3,813,724,342	3,990,278,883	3,994,555,256	4,108,327,596	4,271,331,738
Deferred Inflows of Resources							
Deferred gain on refunding	40,566,648	44,046,097	47,525,546	47,982,938	46,654,836	49,257,784	-
Deferred amounts for swap terminations	457	18,041	35,625	165,223	189,808	214,393	238,978
Deferred capital contribution	-	-	5,960,000	-	-	-	-
Deferred pension amounts	20,087,733		<del>-</del>	<del>-</del>	12,994,118	11,750,654	27,805,977
Total Deferred Inflows of Resources	60,654,838	44,064,138	53,521,171	48,148,161	59,838,762	61,222,831	28,044,955
Net Position (Deficit) [1]							
Net investment in capital assets	(85,551,623)	(110,660,463)	(113,359,960)	(62,382,494)	34,412,661	142,699,532	220,388,158
Restricted for debt service	91,754,608	90,855,751	85,803,313	117,246,259	101,996,536	107,931,677	108,793,840
Restricted for payment assistance program	7,045,715	6,428,815	5,233,710	4,631,494	3,308,896	3,117,744	2,052,550
Unrestricted	(123,281,991)	(99,490,694)	(102,845,010)	(183,438,240)	(258,037,496)	(320,109,796)	(341,826,833)
TOTAL NET POSITION (DEFICIT)	\$ (110,033,291)	\$ (112,866,591)	\$ (125,167,947)	\$ (123,942,981)	\$ (118,319,403)	\$ (66,360,843)	\$ (10,592,285)

<sup>[1]</sup> The classification for net position for 2016 - 2018 have been revised to match the methodology used from 2019 and thereafter.

<sup>\*</sup> GLWA began operations on January 1, 2016. The data for FY 2016 relates to six months of activity through June 30, 2016. This schedule is being built prospectively. Ultimately, 10 years of data will be presented.



CHANGES IN NET POSITION - BUSINESS-TYPE ACTIVITIES

	2022	20	021	 2020		2019		2018		2017		2016*
Operating Revenues												
Wholesale customer charges	\$ 591,839,582		9,991,584	\$ 578,705,063	\$	584,171,596	\$	592,096,175		594,426,876	\$	281,883,522
Local system charges	210,359,500		9,885,200	207,102,800		201,340,700		194,099,800		202,794,400		102,660,400
Industrial waste charges	8,300,278		3,004,939	7,854,593		9,106,274		14,334,979		14,381,106		6,910,192
Pollutant surcharges	5,181,816	6	3,719,964	6,448,508		5,932,550		6,908,404		5,206,294		2,423,910
Bad debt recovery	-		-	-		-		-		40,172,155		-
Other revenues	663,953		766,943	 778,257		527,663		4,455,345		576,195		4,252,477
Total Operating Revenues	816,345,129	815	5,368,630	 800,889,221		801,078,783	_	811,894,703		857,557,026	_	398,130,501
Operating Expenses												
Personnel	107,053,390	106	3,945,131	104,266,420		98,588,599		95,525,457		86,156,304		21,590,763
Contractual services	114,094,006	103	3,324,025	109,448,358		101,743,758		99,877,310		90,135,859		17,179,869
Utilities	59,655,751	52	2,749,654	51,152,735		51,395,385		53,694,380		55,661,469		25,037,499
Chemicals	20,382,163	13	3,982,136	14,241,843		13,275,860		12,877,813		14,765,181		6,451,484
Supplies and other expenses	29,069,352	31	,097,071	35,427,273		37,120,915		34,526,388		20,162,690		17,903,355
Capital adjustment	-		· · ·	26,780		2,258,351		· · ·		-		-
Capital program allocation	(2,632,136)	(3	3,191,809)	(3,347,401)		(3,380,755)		(1,683,450)		(2,128,078)		-
Intergovernmental reimbursements	(2,887,881)		3,166,692)	(1,733,710)		(7,139,362)		(9,908,111)		(11,704,210)		-
Centralized services	-	(-		-		-		-		-		35,228,282
Administrative services	_		_	_		_		_		_		10.534.428
Depreciation	281,209,656	274	1,043,606	280,104,195		309,115,490		331,242,398		329,766,377		157,316,574
Amortization of intangible assets	4,006,368		3,676,590	 3,566,664		3,566,664		2,080,554		-		-
Total Operating Expenses	609,950,669	579	9,459,712	 593,153,157		606,544,905		618,232,739		582,815,592		291,242,254
Operating Income	206,394,460	235	5,908,918	 207,736,064		194,533,878		193,661,964	:	274,741,434		106,888,247
Nonenerating Bevenues (Evnences)												
Nonoperating Revenues (Expenses)	(F 204 270)	4	050 604	05 446 706		06 547 000		44 20E 70E		4 040 700		4 404 200
Earnings (loss) on investments	(5,384,278)		1,259,624	25,416,706		26,517,802		11,395,785		4,042,790		1,481,398
Interest on shortfall and obligations receivable	42,264,765		3,722,511	42,434,884		41,777,702		38,856,520	,	42,332,428		21,062,500
Interest expense	(256,196,504)		3,485,014)	(288,947,856)		(296,597,333)		(300,395,306)		291,592,097)		(148,447,442)
Amortization of debt related items and cost of issuance	13,318,015		2,965,639	10,302,560		3,995,230		8,684,285		(14,937,182)		2,055,724
Legacy pension expense	(13,915,303)	,	2,527,961)	(20,143,505)		16,778,381		(24,922,162)		(7,021,006)		=
WRAP (Water Residential Assistance Program)	(2,792,837)		1,517,453)	(3,315,117)		(2,024,119)		(3,755,534)		(2,127,333)		
Other	153,741		(840,886)	(196,618)		(524,198)		554,677		379,409		275,693
Sewer lookback - MOU adjustment				 	_	(6,527,200)		<u> </u>				
Total Nonoperating Expenses	(222,552,401)	(230	),423,540)	 (234,448,946)		(216,603,735)	_	(269,581,735)	(	268,922,991)	_	(123,572,127)
Income (loss) before contributions and special item	(16,157,941)	5	5,485,378	(26,712,882)		(22,069,857)		(75,919,771)		5,818,443		(16,683,880)
Capital Contributions	6,991,039	5	5,960,000	5,960,000		-		-		320,707		2,000,000
Special Item - MOU with DWSD		-		 <u>-</u>		<u> </u>				(94,290,263)		
Change in net position	(9,166,902)	11	,445,378	(20,752,882)		(22,069,857)		(75,919,771)		(88,151,113)		(14,683,880)
NET POSITION (DEFICIT), Beginning of Year	(210,132,125)	(221	1,577,503)	 (200,824,621)		(178,754,764)	_	(102,834,993)	-	(14,683,880)	_	<del>_</del>
NET POSITION (DEFICIT), END OF YEAR	\$ (219,299,027)	\$ (210	),132,125)	\$ (221,577,503)	\$	(200,824,621)	\$	(178,754,764)	\$ (	102,834,993)	\$	(14,683,880)

<sup>\*</sup> GLWA began operations on January 1, 2016. The data for FY 2016 relates to six months of activity through June 30, 2016. This schedule is being built prospectively. Ultimately, 10 years of data will be presented.

#### DRAFT Schedule 2a

### **GREAT LAKES WATER AUTHORITY**

CHANGES IN NET POSITION - WATER FUND

	2022	2021	2020	2019	9	2018	2017	2016*
Operating Revenues								
Wholesale customer charges	\$ 323,026,213	\$ 322,423,768	\$ 312,701,777		99,136	\$ 323,117,344	\$ 331,115,131	\$ 160,777,16
Local system charges	21,697,300	21,925,500	21,295,500	20,1	81,400	15,130,600	15,490,300	6,833,50
Bad debt recovery	=	=	=		-	=	5,107,125	
Other revenues	234,462	265,822	256,300		21,340	64,200	37,388	54,86
Total Operating Revenues	344,957,975	344,615,090	334,253,577	331,6	01,876	338,312,144	351,749,944	167,665,53
Operating Expenses								
Personnel	44,892,622	43,889,495	43,946,225	42,0	85,546	41,845,295	38,261,393	8,301,02
Contractual services	50,683,897	40,410,811	46,097,405	43,0	83,078	35,794,549	34,257,419	3,304,11
Utilities	28,725,292	28,828,226	27,719,754	26,2	47,858	26,871,081	28,469,603	12,368,55
Chemicals	7,788,784	6,028,141	5,569,437	5,0	88,827	4,804,768	5,340,753	2,444,54
Supplies and other expenses	9,157,367	9,158,990	12,034,192	11,7	97,279	9,543,615	7,982,562	1,440,64
Capital adjustment	· · ·	· · ·	26,780		· -	-	, , <u>-</u>	
Capital program allocation	(1,618,459)	(2,123,060)	(2,164,003)	(2,0	54,913)	(713,779)	(977,762)	
Intergovernmental reimbursements	(1,813,535)	(2,554,511)	(696,952)	(6,4	25,729)	(9,615,146)	(11,603,019)	
Centralized services	-	-	` ′	. ,	-	-	-	18,494,85
Administrative services	-	-	-		-	-	-	3,191,92
Depreciation	123,196,027	123,271,541	127,183,228	140,5	71,120	143,991,815	144,137,912	71,295,54
Amortization of intangible asset	3,566,664	3,566,664	3,566,664	3,5	66,664	2,080,554		
Total Operating Expenses	264,578,659	250,476,297	263,282,730	263,9	59,730	254,602,752	245,868,861	120,841,20
Operating Income	80,379,316	94,138,793	70,970,847	67,6	42,146	83,709,392	105,881,083	46,824,32
Nonoperating Revenues (Expenses)								
Earnings (loss) on investments	(2,361,396)	768,918	13,744,774	14,7	54,401	6,129,530	1,832,918	392,03
Interest on shortfall and obligations receivable	25,107,207	25,474,904	22,945,866	22.9	21,380	23,351,220	25,269,750	12,231,25
Interest expense	(125,086,379)	(128,257,367)	(133,537,621)	(136.7	04,033)	(139,343,204)	(132,434,945)	(65,958,09
Amortization of debt related items and cost of issuance	15,610,434	15,988,278	14,258,569		71,937	13,837,585	2,403,018	2,418,89
Legacy pension expense	(4,988,132)	(8,075,457)	(7,220,716)		14,441	(8,933,691)	(2,516,776)	, -,-
WRAP (Water Residential Assistance Program)	(1,049,908)	(593,206)	(1,393,179)		55,455)	(1,506,554)	(884,327)	
Other	388,656	(300,841)	703,544	,	91,096)	(1,205,489)	878,305	
Total Nonoperating Expenses	(92,379,518)	(94,994,771)	(90,498,763)	(84,0	88,425)	(107,670,603)	(105,452,057)	(50,915,92
Income (loss) before special item	(12,000,202)	(855,978)	(19,527,916)	(16,4	46,279)	(23,961,211)	429,026	(4,091,59
Special Item - MOU with DWSD	<del>_</del>				<u> </u>		(32,811,581)	
Change in net position	(12,000,202)	(855,978)	(19,527,916)	(16,4	46,279)	(23,961,211)	(32,382,555)	(4,091,59
NET POSITION (DEFICIT), Beginning of Year	(97,265,534)	(96,409,556)	(76,881,640)	(60,4	35,361)	(36,474,150)	(4,091,595)	
NET POSITION (DEFICIT), END OF YEAR	\$ (109,265,736)	\$ (97,265,534)	\$ (96,409,556)	\$ (76,8	81,640)	\$ (60,435,361)	\$ (36,474,150)	\$ (4,091,59

<sup>\*</sup> GLWA began operations on January 1, 2016. The data for FY 2016 relates to six months of activity through June 30, 2016. This schedule is being built prospectively. Ultimately, 10 years of data will be presented.



CHANGES IN NET POSITION - SEWAGE DISPOSAL FUND

<del></del>	2022	2021	2020	2019	2018	2017	2016*
Operating Revenues	¢ 260 042 262	¢ 267.567.040	¢ 266 002 222	¢ 272.772.400	¢ 269.079.004	e 262 244 745	e 101 100 050
Wholesale customer charges Local system charges	\$ 268,813,369 188,662,200	\$ 267,567,816 187,959,700	\$ 266,003,286 185,807,300	\$ 272,772,460 181,159,300	\$ 268,978,831 178,969,200	\$ 263,311,745 187,304,100	\$ 121,106,353 95,826,900
Industrial waste charges	8,300,278	8.004.939	7,854,593	9,106,274	14,334,979	14.381.106	6.910.192
Pollutant surcharges	5,181,816	6,719,964	6,448,508	5,932,550	6,908,404	5,206,294	2,423,910
Bad debt recovery	-	0,7 10,004	-	0,002,000	0,000,404	35,065,030	2,420,010
Other revenues	429,491	501,121	521,957	506,323	4,391,145	538,807	4,197,614
Total Operating Revenues	471,387,154	470,753,540	466,635,644	469,476,907	473,582,559	505,807,082	230,464,969
Operating Expenses							
Personnel	62,160,768	63,055,636	60,320,195	56,503,053	53,680,162	47,894,911	13,289,741
Contractual services	63,410,109	62,913,214	63,350,953	58,660,680	64,082,761	55,878,440	13,875,756
Utilities	30,930,459	23,921,428	23,432,981	25,147,527	26,823,299	27,191,866	12,668,942
Chemicals	12,593,379	7,953,995	8,672,406	8,187,033	8,073,045	9,424,428	4,006,941
Supplies and other expenses	19,911,985	21,938,081	23,393,081	25,323,636	24,982,773	12,180,128	16,462,711
Capital adjustment	-	<del>.</del>		2,258,351	- -	- -	-
Capital program allocation	(1,013,677)	(1,068,749)	(1,183,398)	(1,325,842)	(969,671)	(1,150,316)	-
Intergovernmental reimbursements	(1,074,346)	(612,181)	(1,036,758)	(713,633)	(292,965)	(101,191)	-
Centralized services	-	=	-	-	-	-	16,733,431
Administrative services	450.040.600	450 770 005	452,020,067	460 544 270	407.050.502	405 600 465	7,342,499
Depreciation	158,013,629	150,772,065	152,920,967	168,544,370	187,250,583	185,628,465	86,021,029
Amortization of intangible assets	439,704	109,926	<del>-</del>	<del>-</del>	<u>-</u>		
Total Operating Expenses	345,372,010	328,983,415	329,870,427	342,585,175	363,629,987	336,946,731	170,401,050
Operating Income	126,015,144	141,770,125	136,765,217	126,891,732	109,952,572	168,860,351	60,063,919
Nonoperating Revenues (Expenses)							
Earnings (loss) on investments	(3,022,882)	490,706	11,671,932	11,763,401	5,266,255	2,209,872	1,089,367
Interest on shortfall and obligations receivable	17,157,558	18,247,607	19,489,018	18,856,322	15,505,300	17,062,678	8,831,250
Interest expense	(131,110,125)	(135,227,647)	(155,410,235)	(159,893,300)	(161,052,102)	(159,157,152)	(82,489,347)
Amortization of debt related items and cost of issuance	(2,292,419)	(3,022,639)	(3,956,009)	(6,776,707)	(5,153,300)	(17,340,200)	(363,167
Legacy pension expense	(8,927,171)	(14,452,504)	(12,922,789)	10,763,940	(15,988,471)	(4,504,230)	-
WRAP (Water Residential Assistance Program)	(1,742,929)	(924,247)	(1,921,938)	(1,168,664)	(2,248,980)	(1,243,006)	=
Other	(234,915)	(540,045)	(900,162)	466,898	1,760,166	(498,896)	275,693
Sewer lookback - MOU adjustment		<del>-</del>		(6,527,200)	<u> </u>	<del>-</del>	
Total Nonoperating Expenses	(130,172,883)	(135,428,769)	(143,950,183)	(132,515,310)	(161,911,132)	(163,470,934)	(72,656,204)
Income (loss) before contributions and special item	(4,157,739)	6,341,356	(7,184,966)	(5,623,578)	(51,958,560)	5,389,417	(12,592,285)
Capital Contributions	6,991,039	5,960,000	5,960,000	-	-	320,707	2,000,000
Special Item - MOU with DWSD				<u> </u>		(61,478,682)	
Change in net position	2,833,300	12,301,356	(1,224,966)	(5,623,578)	(51,958,560)	(55,768,558)	(10,592,285)
NET POSITION (DEFICIT), Beginning of Year	(112,866,591)	(125,168,947)	(123,943,981)	(118,319,403)	(66,360,843)	(10,592,285)	
NET POSITION (DEFICIT), END OF YEAR	\$ (110,033,291)	\$ (112,867,591)	\$ (125,168,947)	\$ (123,942,981)	\$ (118,319,403)	\$ (66,360,843)	\$ (10,592,285)

<sup>\*</sup> GLWA began operations on January 1, 2016. The data for FY 2016 relates to six months of activity through June 30, 2016. This schedule is being built prospectively. Ultimately, 10 years of data will be presented.



CHARGE ADJUSTMENTS

	2023	2022	2021	2020	2019	2018	2017	2016 [5]
Water Fund								
Budgeted revenue requirement [1]	\$ 356,071,600	\$ 344,030,500	\$ 341,642,000	\$ 339,664,200	\$ 331,400,500	\$ 328,119,300	\$ 331,213,200	\$ 318,474,200
Percent change in budgeted								
revenue requirement	3.5%	0.7%	0.6%	2.5%	1.0%	-0.9%	4.0%	4.0%
Average annual charge adjustment [	2]							
Total regional system	3.7%	1.5%	3.2%	0.6%	1.8%	1.8%	4.5%	n/a [6]
Suburban wholesale	3.5%	1.9%	3.1%	0.3%	0.2%	2.0%	3.4%	11.3%
Local system charge [3]	3.0%	-2.0%	3.0%	2.7%	14.1%	-1.0%	11.6%	n/a [6]
Number of wholesale								
water customers [4]	87	87	87	87	87	87	88	85
Sewage Disposal Fund								
Budgeted revenue requirement [1]	\$ 481,372,100	\$ 475,429,200	\$ 486,751,300	\$ 480,605,300	\$ 470,156,000	\$ 465,500,100	\$ 464,078,500	\$ 446,229,300
Percent change in budgeted								
revenue requirement	1.3%	-2.3%	1.3%	2.2%	1.0%	0.3%	4.0%	4.0%
Average annual charge adjustment [	2]							
Total regional system	2.4%	-0.6%	2.0%	0.8%	0.1%	-0.7%	8.3%	n/a [6]
Suburban wholesale	3.2%	-0.1%	1.7%	-0.1%	1.3%	1.8%	4.9%	-1.1%
Local system charge [3]	1.2%	-0.7%	2.3%	2.5%	1.2%	-4.2%	13.9%	n/a [6]
Number of wholesale								
sewer customers [4]	18	18	18	18	18	18	18	21

<sup>[1]</sup> This is the revenue requirements in the original adopted budget for the fiscal year which is used in the calculation of charges. The revenue requirement represents the funding requirements which are defined in the Master Bond Ordinance.

Note: This schedule is being built prospectively; ultimately, 10 years of data will be presented. Source: Great Lakes Water Authority Financial Services Area and the Foster Group

<sup>[2]</sup> Average annual charge adjustment percentages is the required charge adjustment required when calculating revenue with the prior year existing charges, usage projections and any other specific individual contract requirements. For the sewage disposal system, this also includes the bad debt adjustment.

<sup>[3]</sup> Represents the annual change in the local system charges to the Detroit customer class before the annual credit of \$20.7 million for water and \$5.5 million for sewer. Does not include any lookback charges in the percentage increase/decrease calculation. Does not include any Detroit local system operating costs or charges included in the Detroit retail rate. Also does not include any impact of Detroit's use of the regional system lease payment to finance allocated debt service obligations.

<sup>[4]</sup> Does not include the City of Detroit. The water system includes one emergency basis contract.

<sup>[5]</sup> GLWA began operations on January 1, 2016. Amounts in this column are based on annual budget of Detroit Water and Sewage Department for FY 2016 which was the basis for the revenue requirement for the six months of operations of GLWA.

<sup>[6]</sup> Due to the establishment of the Authority and DWSD as separate entities during FY 2016, this information is not applicable.

#### DRAFT Schedule 4a

#### **GREAT LAKES WATER AUTHORITY**

#### WATER FUND OPERATING REVENUES/ LARGEST WATER CUSTOMERS

	_	2022		2021		2020		2019		2018		2017		2016*
Operating Revenues Suburban wholesale charges [1] Local system charges Bad debt recovery	\$	323,026,213 21,697,300	\$	322,423,768 21,925,500	\$	312,701,777 21,295,500	\$	311,399,136 20,181,400	\$	323,117,344 15,130,600	\$	331,115,131 15,490,300 5,107,125	\$	160,777,169 6,833,500
Other revenue	-	234,462	_	265,822		256,300		21,340		64,200		37,388	_	54,863
Total Operating Revenues	\$	344,957,975	\$	344,615,090	\$	334,253,577	\$	331,601,876	\$	338,312,144	\$	351,749,944	\$	167,665,532
Suburban wholesale charges % of total														
operating revenue		93.64%		93.56%		93.55%		93.91%		95.51%		94.13%		95.89%
Local system charges % of total operating revenue		6.29%		6.36%		6.37%		6.09%		4.47%		4.40%		4.08%
Ten Largest Suburban Wholesale Member Partr	ners \$	24 025 255	¢.	22 722 602	φ	23,089,967	φ	23,311,743	φ	23,118,160	\$	22,434,129	\$	11,160,701
Southeast Oakland County Water Authority North Oakland County Water Authority	Φ	24,035,255 22,798,372	\$	23,722,602 22,667,931	\$	22,293,795	\$	23,464,096	\$	23,365,866	Φ	22,434,129	Φ	11,105,152
Sterling Heights		16,235,356		16,375,729		15,242,912		14,644,368		15,571,146		15,480,008		7,155,303
Shelby Township		14,885,135		15,690,553		14,482,451		13,719,053		13,554,398		13,462,808		6,114,243
Troy		13,811,983		14,324,990		13,607,770		13,700,093		13,842,135		13,939,815		6,058,667
Macomb Township		13,065,395		13,388,385		12,870,377		11,063,225		11,167,739		10,945,117		0,000,007
Livonia		11,860,410		11,806,151		11,553,730		14,001,058		13,669,376		13,483,657		6,223,290
West Bloomfield Township		11,229,363		11,010,166		- 11,000,700		10,733,617		-		-		0,220,200
Ypsilanti Community Utilities Authority		11,059,703		- 1,010,100		10,450,861		-		11,038,134		_		_
Warren		10,940,909		_		-		10,648,162		-		_		_
Flint [2]		-		10,980,526		10.325.345		11,604,504		12.235.483		13.256.330		6,738,009
Canton Township		-		10,919,607		10,491,407		-		13,334,615		13,872,584		6,032,404
Genesee County Drain Commission [3]		_		-		-		-		-		18,493,530		8,593,304
Novi		<u> </u>										<u> </u>		5,595,031
Total Revenue Ten Largest Suburban Wholesale Member Partners	\$	149,921,881	\$	150,886,640	\$	144,408,615	\$	146,889,919	\$	150,897,052	\$	158,281,239	\$	74,776,104
Ten largest suburban wholesale member partners % of total operating revenues		43.46%		43.78%		43.20%		44.30%		44.60%		45.00%		44.60%

<sup>[1]</sup> Net of bad debt expense.

<sup>[2]</sup> Represents billed revenues prior to the credit to Flint for its proportional share of KWA debt service.

<sup>[3]</sup> Genesee County Drain Commission changed service providers in December 2017 and has contracted GLWA for as needed emergency water service.

<sup>\*</sup> GLWA began operations on January 1, 2016. The data for 2016 is for the six months of activity through June 30, 2016. This schedule is being built prospectively. Ultimately, 10 years of data will be presented.



#### SEWAGE DISPOSAL FUND OPERATING REVENUES/ LARGEST SEWER CUSTOMERS

		2022		2021		2020		2019	2018		2017		2016*
Operating Revenues		2022		2021		2020		2019	 2016		2017		2010
Suburban wholesale charges [1]	\$	268,813,369	\$	267,567,816	\$	266,003,286	\$	272,772,460	\$ 268,978,831	\$	263,311,745	\$	121,106,353
Local system charges		188,662,200		187,959,700		185,807,300		181,159,300	178,969,200		187,304,100		95,826,900
Industrial waste and surcharges		13,482,094		14,724,903		14,303,101		15,038,824	21,243,383		19,587,400		9,334,102
Bad debt recovery		-		-		-		-	-		35,065,030		-
Other revenue		429,491		501,121		521,957	_	506,323	 4,391,145		538,807		4,197,614
Total Operating Revenues	\$	471,387,154	\$	470,753,540	\$	466,635,644	\$	469,476,907	\$ 473,582,559	\$	505,807,082	\$	230,464,969
Suburban wholesale charges % of total													
operating revenue		57.03%		56.84%		57.00%		58.10%	56.80%		52.06%		52.55%
Local system charges % of total													
operating revenue		40.02%		39.93%		39.82%		38.59%	37.79%		37.03%		41.58%
Ten Largest Suburban Wholesale Memb	oer P	artners											
Oakland Macomb Interceptor	\$	70,683,993	\$	70,355,029	\$	69,870,786	\$	77,533,200	\$ 72,816,000	\$	69,627,600	\$	34,541,400
Drainage District													
Wayne County - Rouge Valley		55,267,200		54,536,400		54,162,000		53,761,200	55,022,400		55,486,800		25,901,400
Oakland County-George W Kuhn													
Drainage District		45,828,000		45,558,000		45,264,000		44,972,400	45,751,200		45,682,800		21,410,400
Evergreen Farmington		35,766,000		35,084,400		34,839,600		34,578,000	33,733,200		32,179,200		15,094,200
South Macomb Sanitation District		24,772,800		25,000,800		24,837,600		24,672,000	24,637,200		24,120,000		11,501,400
Dearborn		20,058,000		19,628,400		19,502,400		19,372,800	19,628,400		19,603,200		8,049,000
Highland Park		5,356,800		5,708,400		5,670,000		5,614,800	5,642,400		5,818,800		2,808,600
Hamtramck		3,993,600		4,019,400		3,994,800		3,962,400	3,958,800		4,086,000		1,966,800
Grosse Pointe Farms		2,715,600		2,769,000		2,750,400		2,727,600	2,696,400		2,667,600		1,243,800
Grosse Pointe Park		1,882,800		1,824,000		1,812,000		1,801,200	 1,740,000		1,626,000		746,400
Total Revenue Ten Largest			_		_					_		_	
Suburban Wholesale Member Partners	\$	266,324,793	\$	264,483,829	\$	262,703,586	\$	268,995,600	\$ 265,626,000	\$	260,898,000	\$	123,263,400
Ten largest suburban wholesale member													
partners % of total operating revenues		56.50%		56.18%		56.30%		57.30%	56.09%		51.58%		53.48%

<sup>[1]</sup> Net of bad debt expense.

<sup>\*</sup> GLWA began operations on January 1, 2016. The data for 2016 is for the six months of activity through June 30, 2016. This schedule is being built prospectively. Ultimately, 10 years of data will be presented.



SCHEDULE OF WATER CHARGES\*

Community Name	Fixed Monthly Charge	Commodity \$/Mcf	Community Name	Fixed Monthly Charge	Commodity \$/Mcf
Allen Park	\$ 126,40	00 \$ 7.82	Mayfield Township	\$ 2,500	\$ 24.68
Almont, Village of	12,60		Melvindale	34,100	6.42
Ash Township	43,90	00 8.27	New Haven, Village of	22,200	6.94
Belleville	16,60	00 9.74	North Oakland County Water Authority	1,168,100	10.41
Berlin Township	38,40	00 11.54	Northville, City	40,600	10.48
Brownstown Township	190,60	00 11.09	Northville Township	299,300	17.00
Bruce Township	16,70	00 61.19	Novi	476,200	13.03
Canton Township	539,90	00 12.36	Oak Park	73,700	6.08
Center Line	24,60	00 6.28	Oakland County Drain Commission	4,300	3.49
Chesterfield Township	223,80	00 10.41	Plymouth, City	57,000	10.34
Clinton Township	398,90	00 7.92	Plymouth Township	234,100	11.57
Commerce Township	187,70	00 14.72	Redford Township	167,100	8.32
Dearborn	538,50	00 7.22	River Rouge	35,900	7.58
Dearborn Heights	193,30	7.84	Riverview	46,900	7.73
Eastpointe	82,00	00 6.31	Rockwood	14,700	11.79
Ecorse	79,40	00 4.48	Romeo	13,500	18.13
Farmington	53,00	9.52	Romulus	224,200	8.21
Farmington Hills	465,60	00 10.57	Roseville	142,200	5.99
Ferndale	54,10	00 6.19	Royal Oak Township	10,400	7.65
Flat Rock	69,90	9.79	Shelby Township	751,600	14.88
Flint (1)	564,40	9.43	Southeastern Oakland County Water Authority	1,215,400	7.75
Fraser	64,30	00 8.72	South Rockwood	6,100	10.17
Garden City	88,10	00 8.71	Southgate	116,300	8.12
Gibraltar	17,50	00 8.61	St. Clair County-Burtchville Township	17,700	18.19
Grosse Ile Township	57,80	00 12.10	St. Clair County-Greenwood Energy Center	49,400	19.18
Grosse Pointe Park	71,00	00 10.21	St. Clair Shores	161,800	6.80
Grosse Pointe Shores	34,80	00 13.75	Sterling Heights	804,500	11.14
Grosse Pointe Woods	67,70	7.50	Sumpter Township	35,600	9.67
Hamtramck	42,20	00 5.42	Sylvan Lake	12,300	15.48
Harper Woods	42,50	00 7.12	Taylor	244,700	7.46
Harrison Township	85,10	00 7.21	Trenton	89,100	8.19
Hazel Park	38,80	00 6.15	Troy	722,200	12.20
Highland Park	61,20	00 4.63	Utica	30,000	9.72
Huron Township	77,60	00 10.28	Van Buren Township	183,700	11.10
Imlay City	77,20	00 13.50	Walled Lake	42,200	10.98
Imlay Township	80	00 42.50	Warren	545,200	6.94
Inkster	65,10	00 5.56	Washington Township	121,700	12.37
Keego Harbor	15,70		Wayne	168,700	12.96
Lapeer	80,60	00 12.39	West Bloomfield Township	551,000	16.52
Lenox Township	15,60	00 8.42	Westland	327,500	7.99
Lincoln Park	121,00	00 6.04	Wixom	130,500	13.95
Livonia	607,10	00 10.11	Woodhaven	88,100	12.22
Macomb Township	669,30	00 16.23	Ypsilanti Community Utilities Authority	547,900	9.03
Madison Heights	98,00	00 7.35			

Annual Detroit Wholesale Revenue Requirement \$21,697,300

<sup>\*</sup> Water charges went into effect July 1, 2021 per GLWA Board of Director's action taken at their regular meeting held March 24, 2021.

<sup>(1)</sup> Net fixed monthly charge will include \$554,400 monthly credits for KWA debt service



# SCHEDULE OF SEWAGE DISPOSAL SYSTEM CHARGES\*

Community Name	Fixed Monthly Charge				
Community Name  Oakland Macomb Interceptor District (OMID) Rouge Valley Oakland County - George W. Kuhn (GWK) Evergreen Farmington SE Macomb Sanitary District Dearborn Grosse Pointe Farms Grosse Pointe Park Melvindale Farmington Center Line Allen Park Highland Park Hamtramck	Fixed Mon	5,871,700 4,605,600 3,819,000 2,980,500 2,064,400 1,671,500 226,300 156,900 129,500 98,700 85,800 69,800 446,400 332,800			
Grosse Pointe Harper Woods Redford Township		74,100 18,000 22,200			
Wayne County #3		4,300			

Annual Detroit Wholesale Revenue Requirement \$188,662,200

<sup>\*</sup> Wholesale charges went into effect July 1, 2021



# INDUSTRIAL WASTE CONTROL CHARGES AND POLLUTANT SURCHARGES EFFECTIVE JULY 1, 2021

Meter size - inches:	Admin O	nly Charge (1)	Monthly Charge			
5/8	\$	0.89	\$	3.54		
3/4	\$	1.33	\$	5.31		
1	\$	2.21	\$	8.85		
1 1/2	\$	4.87	\$	19.47		
2	\$	7.08	\$	28.32		
3	\$	12.83	\$	51.33		
4	\$	17.70	\$	70.80		
6	\$	26.55	\$	106.20		
8	\$	44.25	\$	177.00		
10	\$	61.95	\$	247.80		
12	\$	70.80	\$	283.20		
14	\$	88.50	\$	354.00		
16	\$	106.20	\$	424.80		
18	\$	123.90	\$	495.60		
20	\$	141.60	\$	566.40		
24	\$	159.30	\$	637.20		
30	\$	177.00	\$	708.00		
36	\$	194.70	\$	778.80		
48	\$	212.40	\$	849.60		

- (1) Administration only charge is applicable to member partners that are within a geographical area defined in a specific agreement.
- (2) Includes both administration and field work components charges for all other member partners.

Pollutant Surcharges	S
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Pollutant	-	Charge	e per Pound
Biochemical Oxygen Demand (BOD)	for concentrations > 275 mg/l	\$	0.347
Total Suspended Solids (TSS)	for concentrations > 350 mg/l	\$	0.476
Phosphorus (P)	for concentrations > 12 mg/l	\$	6.368
Fats, Oil and Grease (FOG)	for concentrations > 100 mg/l	\$	0.111
Septage Disposal Fee	per 500 gallons of disposal	\$	36.00

RATIOS OF OUTSTANDING DEBT BY TYPE

	_	2022		2021	_	2020	_	2019		2018		2017	 2016
Water Fund Revenue bonds [1] State revolving loans	\$ 2	2,289,900,079 109,429,462	\$	2,368,632,473 71,259,601	\$	2,453,471,088 39,318,264	\$	2,466,561,092 29,860,802	\$ 2	2,540,663,196 25,435,902	\$	2,612,607,101 17,252,235	\$ 2,507,091,038 17,383,761
Total Water Fund	\$ 2	2,399,329,541	\$	2,439,892,074	\$	2,492,789,352	\$	2,496,421,894	\$ 2	2,566,099,098	\$	2,629,859,336	\$ 2,524,474,799
Sewage Disposal Fund Revenue bonds [1] Capital appreciation bonds [1] State revolving loans	\$ 2	2,498,387,185 - 379,648,216	\$	2,577,642,399 5,504,069 416,767,850	\$	2,643,788,368 10,667,560 449,666,531	\$	2,764,196,915 13,377,972 474,177,128	\$ 2	2,739,090,653 14,984,042 475,677,540	\$	2,797,168,264 19,501,737 485,267,036	\$ 2,922,089,599 19,668,138 506,435,742
Total Sewage Disposal Fund	\$ 2	2,878,035,401	\$	2,999,914,318	\$	3,104,122,459	\$	3,251,752,015	\$ 3	3,229,752,235	\$	3,301,937,037	\$ 3,448,193,479
Business-type Activities Revenue bonds [1] Capital appreciation bonds [1] State revolving loans	\$ 4	4,788,287,264 - 489,077,678	\$	4,946,274,872 5,504,069 488,027,451	\$	5,097,259,456 10,667,560 488,984,795	\$	5,230,758,007 13,377,972 504,037,930	\$ 5	5,279,753,849 14,984,042 501,113,442	\$	5,409,775,365 19,501,737 502,519,271	\$ 5,429,180,637 19,668,138 523,819,503
Total Business-type Activities Debt	\$ :	5,277,364,942	\$	5,439,806,392	\$	5,596,911,811	\$	5,748,173,909	\$ 5	5,795,851,333	\$	5,931,796,373	\$ 5,972,668,278
Total taxable value ]2]		n/a		n/a		n/a		n/a		n/a		n/a	n/a
Total population served [3]: Water Sewage disposal		3,800,000 2,800,000		3,800,000 2,800,000		3,800,000 2,800,000		3,800,000 2,800,000		3,800,000 2,800,000		3,800,000 2,800,000	3,800,000 2,800,000
Total debt per capita: Water Sewage disposal	\$ \$	631 1,028	\$ \$	642 1,071	\$		\$		\$ \$	675 1,153	\$ \$	692 1,179	\$ 664 1,231
Per capita income [4]	\$	59,590	\$	58,971	\$	58,356	\$	54,172	\$	52,572	\$	50,863	\$ 49,179
Total debt as a percentage of income: Water Sewage disposal		1.06% 1.73%		1.09% 1.82%		1.12% 1.90%		1.21% 2.14%		1.28% 2.19%		1.36% 2.32%	1.35% 2.50%

<sup>[1]</sup> Amounts are reported net of premiums and discounts.

Further details regarding the Authority's debt can be found in the notes to the financial statements.

GLWA began operations on January 1, 2016. This schedule is being built prospectively. Ultimately, 10 years of data will be presented.

<sup>[2]</sup> GLWA is not authorized to levy property taxes; therefore, presentation of taxable values and the ratio of total debt to taxable value is not applicable.
[3] Source: Estimated based on data from Southeast Michigan Council of Governments (SEMCOG).

<sup>[4]</sup> Source: FRED Economic Data, St. Louis Fed and Michigan State University Center for Economic Analysis.



DEBT BY LIEN As of June 30, 2022

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	Or	iginal Principal Amount [1]	Outstanding as of June 30, 2022
Water Supply System Revenue Bonds Senior Lien Bonds			
Water Supply System Revenue Senior Lien Bonds, Series 2003A Water Supply System Revenue Senior Lien Bonds, Series 2005B Water Supply System Revenue Senior Lien Bonds, Series 2006A Water Supply System Revenue Refunding Senior Lien Bonds, Series 2014D-1 Water Supply System Revenue Refunding Senior Lien Bonds, Series 2014D-2 Water Supply System Revenue Refunding Senior Lien Bonds, Series 2014D-4 Water Supply System Revenue Refunding Senior Lien Bonds, Series 2015D-1 Water Supply System Revenue Senior Lien Bonds, Series 2016A Water Supply System Revenue Refunding Senior Lien Bonds, Series 2016C Water Supply System Revenue Senior Lien Bonds, Series 2020A Water Supply System Revenue Refunding Senior Lien Bonds, Series 2020C	\$	234,805,000 194,900,000 280,000,000 206,540,000 188,455,000 307,645,000 89,430,000 443,930,000 42,445,000 377,515,000	\$ 100,000 100,000 100,000 71,225,000 188,455,000 209,360,000 69,275,000 443,930,000 42,445,000 377,515,000
		2,453,665,000	1,490,500,000
Second Lien Bonds Water Supply System Revenue Second Lien Bonds, Series 2003B Water Supply System Revenue Second Lien Bonds, Series 2006B Water Supply System Revenue Refunding Second Lien Bonds, Series 2014D-6 Water Supply System Revenue Refunding Second Lien Bonds, Series 2015D-2 Water Supply System Revenue Second Lien Bonds, Series 2016B Water Supply System Revenue Refunding Second Lien Bonds, Series 2016D Water Supply System Revenue Refunding Second Lien Bonds, Series 2018A Water Supply System Revenue Second Lien Bonds, Series 2020B		172,945,000 120,000,000 65,425,000 37,235,000 163,830,000 222,045,000 155,595,000 43,135,000	100,000 100,000 49,490,000 37,235,000 163,825,000 222,045,000 122,460,000 43,135,000
		980,210,000	638,390,000
SRF Junior Lien Bonds Water Supply System Revenue Bonds, Series 2005 SRF-1 Water Supply System Revenue Bonds, Series 2005 SRF-2 Water Supply System Revenue Bonds, Series 2006 SRF-1 Water Supply System Revenue Bonds, Series 2008 SRF-1 Water Supply System Revenue Bonds, Series 2016 SRF-1 Water Supply System Revenue Bonds, Series 2016 SRF-2 Water Supply System Revenue Bonds, Series 2017 SRF-1 Water Supply System Revenue Bonds, Series 2019 SRF-1 Water Supply System Revenue Bonds, Series 2019 SRF-1 Water Supply System Revenue Bonds, Series 2019 SRF-2 Water Supply System Revenue Bonds, Series 2019 SRF-3 Water Supply System Revenue Bonds, Series 2020 SRF-1 Water Supply System Revenue Bonds, Series 2020 SRF-2 Water Supply System Revenue Bonds, Series 2020 SRF-3 Water Supply System Revenue Bonds, Series 2020 SRF-4 Water Supply System Revenue Bonds, Series 2021 SRF-1 Water Supply System Revenue Bonds, Series 2021 SRF-2		13,805,164 8,891,730 5,180,926 2,590,941 8,273,168 3,393,543 5,807,931 8,330,000 29,950,000 11,788,056 20,538,700 9,000,000 8,960,000 12,153,050 11,940,000 104,725,000 11,528,950	3,875,164 2,446,730 1,445,926 750,941 7,463,168 3,053,543 5,347,931 7,985,000 27,115,556 7,742,932 15,869,467 3,623,516 6,753,599 5,325,829 1,774,468 7,154,223 1,701,469
		276,857,159	109,429,462
TOTAL WATER SUPPLY SYSTEM REVENUE BONDS	\$	3,710,732,159	\$ 2,238,319,462



DEBT BY LIEN As of June 30, 2022

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	ginal Principal Amount [1]	utstanding as of June 30, 2022
Sewage Disposal System Revenue Bonds		
Senior Lien Bonds		
Sewage Disposal System Revenue Bonds (Senior), Series 1999 SRF-2	\$ 46,000,000	\$ 2,885,000
Sewage Disposal System Senior Lien Revenue Bonds, Series 2003B	150,000,000	100,000
Sewage Disposal System Senior Lien Revenue Refunding Bonds, Series 2004A	101,435,000	12,640,000
Sewage Disposal System Revenue Refunding Senior Lien Bonds, Series 2006D	370,000,000	239,475,000
Sewage Disposal System Revenue & Revenue Refunding Senior Lien Bonds, Series 2012A	659,780,000	32,105,000
Sewage Disposal System Revenue Refunding Senior Lien Bonds, Series 2014C-3 Sewage Disposal System Revenue Refunding Senior Lien Bonds, Series 2014C-6	446,170,000 143,880,000	381,800,000 88,900,000
Sewage Disposal System Revenue Refunding Senior Lien Bonds, Series 20148-0	126,105,000	126,105,000
Sewage Disposal System Revenue Refunding Senior Lien Bonds, Series 2018A	81,595,000	78,810,000
Sewage Disposal System Revenue Refunding Senior Lien Bonds, Series 2018B	131.690.000	131.690.000
Sewage Disposal System Revenue Refunding Senior Lien Bonds, Series 2018C	44,180,000	37,350,000
Sewage Disposal System Revenue Refunding Senior Lien Bonds, Series 2020A	 594,930,000	 594,930,000
	2,895,765,000	1,726,790,000
Second Lien Bonds	 , , ,	 ,
Sewage Disposal System Second Lien Revenue Bonds, Series 2001B	110,550,000	78,895,000
Sewage Disposal System Revenue Second Lien Bonds, Series 2005A	273.355.000	100.000
Sewage Disposal System Revenue Refunding Second Lien Bonds, Series 2005B	40,215,000	6,695,000
Sewage Disposal System Revenue Refunding Second Lien Bonds, Series 2005C	63,160,000	100,000
Sewage Disposal System Revenue Second Lien Bonds, Series 2006B	250,000,000	100,000
Sewage Disposal System Revenue Refunding Second Lien Bonds, Series 2014C-7	76,715,000	50,000,000
Sewage Disposal System Revenue Refunding Second Lien Bonds, Series 2015C	197,660,000	197,160,000
Sewage Disposal System Revenue Refunding Second Lien Bonds, Series 2016C	295,190,000	295,190,000
Sewage Disposal System Revenue Refunding Second Lien Bonds, Series 2020B	 92,525,000	 87,600,000
	1,399,370,000	715,840,000



DEBT BY LIEN As of June 30, 2022

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	0	riginal Principal Amount [1]		utstanding as of June 30, 2022
Sewage Disposal System Revenue Bonds (concluded)				
SRF Junior Lien Bonds	_		_	
Sewage Disposal System Revenue Bonds, Series 2000 SRF-1	\$	44,197,995	\$	2,667,995
Sewage Disposal System Revenue Bonds, Series 2000 SRF-2		64,401,066		4,016,066
Sewage Disposal System Revenue Bonds, Series 2001 SRF-1		82,200,000		15,095,000
Sewage Disposal System Revenue Bonds, Series 2001 SRF-2		59,850,000		10,990,000
Sewage Disposal System Revenue Bonds, Series 2002 SRF-1		18,985,000		1,190,000
Sewage Disposal System Revenue Bonds, Series 2002 SRF-2		1,545,369		95,369
Sewage Disposal System Revenue Bonds, Series 2002 SRF-3		31,549,466		5,329,466
Sewage Disposal System Revenue Bonds, Series 2003 SRF-1		48,520,000		11,735,000
Sewage Disposal System Revenue Bonds, Series 2003 SRF-2		25,055,370		4,565,370
Sewage Disposal System Revenue Bonds, Series 2004 SRF-1		2,910,000		520,000
Sewage Disposal System Revenue Bonds, Series 2004 SRF-2		18,353,459		3,263,459
Sewage Disposal System Revenue Bonds, Series 2004 SRF-3		12,722,575		2,252,575
Sewage Disposal System Revenue Bonds, Series 2007 SRF-1		167,540,598		73,570,598
Sewage Disposal System Revenue Bonds, Series 2009 SRF-1		13,970,062		6,215,062
Sewage Disposal System Revenue Bonds, Series 2010 SRF-1		4,214,763		2,120,763
Sewage Disposal System Revenue Bonds, Series 2012 SRF-1		14,950,000		10,535,000
Sewage Disposal System Revenue Bonds, Series 2015A SRF		79,500,000		59,625,000
Sewage Disposal System Revenue Bonds, Series 2015B SRF		27,175,304		20,005,304
Sewage Disposal System Revenue Bonds, Series 2015D SRF		15,321,478		11,061,478
Sewage Disposal System Revenue Bonds, Series 2016 SAW-1		10,000,000		8,800,000
Sewage Disposal System Revenue Bonds, Series 2016 SRF-1		15,463,628		12,733,628
Sewage Disposal System Revenue Bonds, Series 2016 SRF-2		48,315,683		42,145,683
Sewage Disposal System Revenue Bonds, Series 2017 SRF-1		33,566,682		29,746,682
Sewage Disposal System Revenue Bonds, Series 2018 SRF-2		17,510,000		17,510,000
Sewage Disposal System Revenue Bonds, Series 2020 SRF-1		28,350,000		16,456,478
Sewage Disposal System Revenue Bonds, Series 2020 SRF-2		3,232,000		480,152
Sewage Disposal System Revenue Bonds, Series 2021 SRF-1		12,940,000		4,037,088
Sewage Disposal System Revenue Bonds, Series 2021 SRF-2		6,881,250		-
Sewage Disposal System Revenue Bonds, Series 2022 SRF-1		34,195,000	-	<u>-</u>
		943,416,748		376,763,216
TOTAL SEWAGE DISPOSAL SYSTEM REVENUE BONDS	\$	5,238,551,748	\$	2,819,393,216

<sup>[1]</sup> Reflects original amount issued by predecessor entity, DWSD, for bonds issued prior to January 1, 2016.



# SCHEDULE OF DEBT SERVICE REQUIREMENTS As of June 30, 2022

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	Senio	r Lien Bonds (\$	6000)	Secon	d Lien Bonds (	\$000)	Junio	r Lien Bonds (\$0	000)	All Bonds (\$000)
Fiscal Year										Total Debt
Ending [1]	Principal	Interest	Total	Principal	Interest	Total	Principal	Interest	Total	Service
	·		_						_	
Water Fund										
2023 [2]	\$6,740	\$54,467	\$61,207	\$13,425	\$28,728	\$42,153	\$5,097	\$2,217	\$7,314	\$110,673
2024	60,290	66,341	126,631	16,640	30,144	46,784	5,565	2,132	7,697	181,112
2025	64,210	63,477	127,687	18,380	29,269	47,649	11,009	1,965	12,974	188,310
2026	67,040	60,553	127,593	19,300	28,327	47,627	9,594	1,761	11,355	186,574
2027	70,060	57,313	127,373	20,265	27,337	47,602	6,928	1,594	8,522	183,498
2028	73,525	53,954	127,479	21,280	26,299	47,579	4,892	1,473	6,365	181,423
2029	76,770	50,472	127,242	22,345	25,208	47,553	4,496	1,378	5,873	180,669
2030	80,490	46,668	127,158	23,460	24,063	47,523	4,445	1,286	5,731	180,411
2031	84,380	42,659	127,039	27,440	22,791	50,231	4,545	1,194	5,739	183,008
2032	88,510	38,439	126,949	28,810	21,384	50,194	4,640	1,100	5,740	182,884
2033	92,825	34,004	126,829	30,255	20,051	50,306	4,319	1,008	5,327	182,462
2034	86,695	29,565	116,260	42,150	18,585	60,735	4,380	919	5,299	182,294
2035	94,960	25,043	120,003	39,930	16,735	56,665	4,475	829	5,304	181,972
2036	107,100	20,010	127,110	2,650	15,671	18,321	4,555	736	5,291	150,722
2037	15,790	17,046	32,836	120,120	12,601	132,721	4,640	642	5,282	170,838
2038	55,135	15,607	70,742	1,600	9,557	11,157	4,226	546	4,772	86,671
2039	61,740	13,368	75,108	1,675	9,475	11,150	3,910	458	4,368	90,626
2040	63,910	11,160	75,070	1,760	9,389	11,149	3,995	376	4,371	90,591
2041	66,160	8,874	75,034	1,845	9,299	11,144	3,036	293	3,328	89,507
2042	67,190	6,530	73,720	1,940	9,205	11,145	1,855	234	2,089	86,953
2043	17,905	4,901	22,806	31,660	8,365	40,025	1,890	193	2,083	64,914
2044	18,805	3,984	22,789	33,245	6,742	39,987	1,593	155	1,748	64,523
2045	19,740	3,020	22,760	34,910	5,038	39,948	1,515	120	1,635	64,343
2046	20,725	2,008	22,733	36,650	3,249	39,899	1,555	86	1,641	64,274
2047	21,765	946	22,711	38,485	1,371	39,856	1,241	52	1,292	63,859
2048	2,550	338	2,888	2,590	344	2,934	787	23	810	6,632
2049	2,680	208	2,888	2,725	211	2,936	248	3	251	6,074
2050	2,810	70	2,880	2,855	71	2,926				5,807
Total	\$1,490,500	\$731,026	\$2,221,526	\$638,390	\$419,506	\$1,057,896	\$109,429	\$22,773	\$132,202	\$3,411,624



#### SCHEDULE OF DEBT SERVICE REQUIREMENTS As of June 30, 2022

Continued From Previous Page

	Senio	r Lien Bonds (S	\$000)	Secon	d Lien Bonds (	\$000)	Junio	r Lien Bonds (\$6	000)	All Bonds (\$000)
Fiscal Year										Total Debt
Ending [1]	Principal	Interest	Total	Principal	Interest	Total	Principal	Interest	Total	Service
									,	
Sewage Dispo	sal Fund									
2023 [2]	\$26,105	\$53,602	\$79,707	\$12,445	\$27,572	\$40,017	\$45,051	\$8,175	\$53,226	\$172,950
2024	80,260	63,536	143,796	3,215	33,438	36,653	40,360	7,189	47,549	227,998
2025	82,615	59,915	142,530	16,035	32,924	48,959	41,266	6,271	47,537	239,026
2026	84,900	56,158	141,058	16,995	32,040	49,035	27,373	5,472	32,845	222,938
2027	90,905	52,369	143,274	21,040	31,028	52,068	24,805	4,917	29,722	225,064
2028	95,135	48,807	143,942	25,795	29,793	55,588	25,250	4,388	29,638	229,168
2029	102,270	44,955	147,225	26,640	28,415	55,055	25,765	3,850	29,615	231,896
2030	114,250	40,618	154,868	19,860	27,183	47,043	26,241	3,301	29,542	231,452
2031	108,915	36,345	145,260	32,550	25,836	58,386	15,528	2,827	18,354	222,001
2032	112,765	32,445	145,210	34,175	24,168	58,343	15,465	2,448	17,913	221,466
2033	130,570	28,296	158,866	21,910	22,766	44,676	15,865	2,071	17,936	221,479
2034	132,420	22,774	155,194	25,915	21,594	47,509	16,280	1,683	17,963	220,667
2035	53,595	18,318	71,913	112,440	18,464	130,904	16,740	1,286	18,026	220,843
2036	11,445	16,909	28,354	162,055	12,296	174,351	15,478	895	16,374	219,078
2037	11,745	16,544	28,289	169,445	4,593	174,038	7,280	557	7,837	210,164
2038	110,565	14,637	125,202	1,690	522	2,212	7,394	379	7,773	135,187
2039	114,005	11,146	125,151	1,745	460	2,205	6,542	198	6,740	134,097
2040	117,550	7,545	125,095	1,810	396	2,206	990	72	1,062	128,363
2041	23,745	5,275	29,020	1,875	330	2,205	1,010	52	1,062	32,286
2042	24,635	4,374	29,009	1,945	261	2,206	1,030	31	1,061	32,276
2043	25,545	3,438	28,983	2,015	189	2,204	1,050	11	1,061	32,248
2044	26,500	2,468	28,968	2,085	115	2,200	· -	-	-	31,168
2045	27,275	1,463	28,738	2,160	39	2,199	-	-	-	30,937
2046	4,425	843	5,268	-	-	· -	-	-	-	5,268
2047	4,645	616	5,261	-	-	-	-	-	-	5,261
2048	4,880	378	5,258	-	-	-	-	-	-	5,258
2049	5,125	128	5,253	<u> </u>	<u> </u>	<u> </u>	<u> </u>		-	5,253
Total	\$1,726,790	\$643,903	\$2,370,693	\$715,840	\$374,422	\$1,090,262	\$376,763	\$56,074	\$432,837	\$3,893,792

<sup>[1]</sup> Reflects fiscal period in which actual payments are due.

Schedule may not foot due to rounding

<sup>[2]</sup> For bonds issued through the Michigan Finance Authority (MFA) in 2014 and 2015, the Authority is required to make payment on these obligations to the MFA depository account five business days prior to the actual due date of the bond principal and interest payments. Therefore, the payments for the principal and interest due on July 1, 2021 are not included in the debt service requirement amounts above as they were paid on June 24, 2022.



DEBT CREDIT RATING HISTORY As of June 30, 2022

2022	2021	2020	2019	2018	2017	2016
evenue						
AA-	AA-	AA-	AA-	A-	A-	A-
A+	A+	A+	A+	BBB+	BBB+	BBB+
A+	A+	A+	A+	N/A	N/A	N/A
A1	A1	A1	A2	A3	A3	Baa1
A2	A2	A2	A3	Baa1	Baa1	Baa2
A+	A+	A+	Α	Α	Α	BBB
Α	Α	Α	A-	A-	A-	BBB-
n Revenue						
AA-	AA-	AA-	A+	A-	A-	A-
A+	A+	A+	Α	BBB+	BBB+	BBB+
A+	A+	A+	Α	N/A	N/A	N/A
A1	A1	A1	A2	A3	A3	Baa1
A2	A2	A2	A3	Baa1	Baa1	Baa2
A+	A+	A+	Α	Α	Α	BBB
Α	Α	Α	A-	A-	A-	BBB-
	AA-A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+	AA-	AA-	AA-	AA- AA- AA- AA- AA- BBB+ A+ A+ A- AA- A- A- AA- AA- AA- AA- AA-	AA- AA- AA- AA- AA- AA- BBB+ BBB+ AA- AA- AA- AA- AA- AA- AA- AA- AA- AA

GLWA began operations on January 1, 2016. This schedule is being built prospectively. Ultimately, 10 years of data will be presented.



CALCULATION OF DEBT SERVICE COVERAGE - OVERVIEW
As of June 30, 2022

The Authority has pledged Net Revenues of the water and sewage disposal systems to secure the repayment of the principal and interest of the revenue bonds and State of Michigan revolving fund loans. Revenues are defined in the Master Bond Ordinance (MBO) and are in accordance with State of Michigan Public Act 94, the Revenue Bond Act of 1933, as all monies collected, directly or indirectly, by GLWA, or by the DWSD as agent for GLWA for the local system under the water and sewer services agreement. Net Revenues are defined in the MBO as all Revenues except for those transferred to the Operations and Maintenance Fund.

Debt service coverage ratios are presented using both (a) the GAAP methodology which calculates pledged revenue on an accrual basis and (b) the Rate Covenant methodology which calculates pledged revenue on a cash basis. This year the Authority has made a refinement to both of these methodologies which are described below:

The GAAP methodology line item for 'GLWA operating expenses' now uses the operating expenses before depreciation and amortization from the basic financial statements. An additional line item has been added for GASB 87 and GASB 96 items that are expenses for budget purposes but require capitalization under the GASB standards. In previous years only the activity in the operations fund from the combining statements was used, which excluded operating expenses paid for in the Improvement and Extension Fund. Prior years have been restated to match the current year methodology.

The Rate Covenant methodology line item for the 'GLWA Regional system operations' is now based on transfers out of the trust to the GLWA operations funds. Previously a calculation was done to compute the cash disbursements from the GLWA operations funds as any cash remaining in the operations fund could be returned to the trust for debt service payments. As the Authority has matured and implemented monthly cash meetings to review cash needs for operations, the new methodology is a more conservative approach which will be used going forward. Prior years have not been restated as the methodology used during those time periods provided a more realistic picture of operational cash needs during the Authority's beginning years.

The MBO establishes that rates and charges be set such that they are expected to produce debt service coverage that is not less than the Required Coverage. Required Coverage is defined as debt service coverage levels of 1.20 for senior lien bonds, 1.10 for second lien bonds and 1.00 for any junior lien bonds, other than second lien bonds. Debt service coverage ratios are inclusive of all revenue bonds and state revolving loans held on behalf of both GLWA and DWSD.



DEBT SERVICE COVERAGE - GAAP BASIS - WATER SYSTEM As of June 30, 2022

	2022	2021	2020	2019	2018	2017	2016 [1]
GLWA Revenues							
Wholesale customer charges	\$ 323,026,213	\$ 322,423,768	\$ 312,701,777	\$ 311,399,136	\$ 323,117,344	\$ 336,222,256	\$ 160,777,169
KWA debt service credits	(6,496,428)	(6,652,253)	(6,652,348)	(6,979,503)	(3,176,073)	-	-
DWSD Local system charges	21,697,300	21,925,500	21,295,500	20,181,400	15,130,600	15,490,300	6,833,500
Other Revenue	775,537	267,562	1,912,636	21,340	64,200	37,388	54,863
Earnings on investments [2]	1,945,613	4,195,305	9,115,115	11,818,203	4,489,397	1,348,898	520,891
Total GLWA Revenues	340,948,235	342,159,882	338,372,680	336,440,576	339,625,468	353,098,842	168,186,423
DWSD Local System Revenues [7]							
Local system revenues [3]	86,032,460	67,464,986	73,817,339	69,777,041	83,983,786	69,680,402	183,279,645
Other Revenue	1,281,815	1,958,151	7,289,468	1,013,276	1,635,430	5,265,229	2,074,095
Total DWSD Local System Revenues	87,314,275	69,423,137	81,106,807	70,790,317	85,619,216	74,945,631	185,353,740
Total Revenue	428,262,510	411,583,019	419,479,487	407,230,893	425,244,684	428,044,473	353,540,163
Operating Expenses							
GLWA operating expenses	137,815,968	123,638,092	132,532,838	119,821,946	108,530,383	101,730,949	49,545,659
GASB 96 expenditures [4]	413,924	-	-	-	_	-	-
O&M transfers:							
DWSD Local System operations	29,989,000	35,833,900	34,662,400	35,484,300	35,059,704	33,596,400	22,444,800
Legacy Pension Regional System [5]	6,048,000	6,048,000	6,048,000	6,048,000	6,048,000	6,048,000	3,024,000
Legacy Pension DWSD Local System [5]	4,272,000	4,272,000	4,272,000	4,272,000	4,272,000	4,272,000	2,136,000
Total Operating Expenses	178,538,892	169,791,992	177,515,238	165,626,246	153,910,087	145,647,349	77,150,459
Pledged revenue	\$ 249,723,618	\$ 241,791,027	\$ 241,964,249	\$ 241,604,647	\$ 271,334,597	\$ 282,397,124	\$ 276,389,704
Principal and interest funding requirement [6]:							
Senior lien bonds	\$ 124,309,692	\$ 123,798,304	\$ 122,318,928	\$ 119,230,820	\$ 127,687,420	\$ 134,234,660	\$ 128,177,999
Second lien bonds	46,840,350	51,731,158	47,849,350	46,214,385	42,852,813	38,990,023	41,178,843
Total senior and second lien bonds	171,150,042	175,529,462	170,168,278	165,445,205	170,540,233	173,224,683	169,356,842
Junior lien bonds	5,439,273	3,684,917	2,700,795	2,521,249	2,009,658	1,785,328	1,781,683
Total all bonds	\$ 176,589,315	\$ 179,214,379	\$ 172,869,073	\$ 167,966,454	\$ 172,549,891	\$ 175,010,011	\$ 171,138,525
GAAP basis debt service coverage							
Senior lien bonds	2.01	1.95	1.98	2.03	2.12	2.10	2.16
Senior and second lien bonds	1.46	1.38	1.42	1.46	1.59	1.63	1.63
All bonds, including SRF junior lien	1.41	1.35	1.40	1.44	1.57	1.61	1.62

<sup>[1]</sup> GLWA started operations on January 1, 2016. Includes 6 months under operations of DWSD and 6 months under the operations of GLWA under the Master Bond Ordinances in effect during the respective time periods.

<sup>[2]</sup> Excludes investment earnings on bond proceeds in construction fund

<sup>[3]</sup> Local Service Revenue reported net of bad debt expense.

<sup>[4]</sup> Amounts recorded under GASB 96 for financial reporting purposes are treated as operating expenditures for budget purposes and the debt service coverage calculation.

<sup>[5]</sup> The legacy pension obligations reflects only the Legacy Pension Obligation as defined in Section 504(c) of the Water Master Bond Ordinance.

<sup>[6]</sup> Calculated on a debt set aside basis consistent with rate covenant basis for rate determination purposes.

<sup>[7]</sup> At the time of the issuance of the GLWA financial report, DWSD's audited financial report had not been released. Amounts used were provided by DWSD's management of the preliminary financial results for the year ended June 30, 2022.



DEBT SERVICE COVERAGE - RATE COVENANT BASIS - WATER SYSTEM
As of June 30, 2022

	2022	2021	2020 [4]	2019	2018	2017 [5]	2016 [1]
GLWA Receipts	¢ 242 064 224	¢ 240 022 4 <del>7</del> 0	Ф 202 E60 0 <del>7</del> 4	¢ 200 600 700	¢ 240 720 004	ф 226.262.250	
Wholesale System Receipts	\$ 313,964,381	\$ 310,032,178	\$ 303,568,071	\$ 308,690,722	\$ 319,728,881	\$ 336,362,250	
DWSD Local system charges Investment Earnings	21,697,300 2,456,013	21,925,500 4,684,353	21,295,500 7,742,625	20,181,400 7,722,112	15,130,600 3,592,524	15,490,300 579,546	
of Total GLWA Receipts	338,117,694	336,642,031	332,606,196	336,594,234	338,452,005	352,432,096	
OWSD Local System Receipts	80,267,663	80,141,924	75,590,223	79,686,819	85,962,882	80,960,806	
otal Receipts	418,385,357	416,783,955	408,196,419	416,281,053	424,414,887	433,392,902	
Operation and Maintenance Transfers							
GLWA Regional system operations [2]	143,933,800	124,167,627	126,188,192	116,356,994	114,426,522	105,431,843	
DWSD Local System operations	29,989,000	35,833,900	34,662,400	35,484,300	35,059,704	33,596,400	
Legacy Pension Regional System [3]	6,048,000	6,048,000	6,048,000	6,048,000	6,048,000	6,048,000	
Legacy Pension DWSD Local System [3]	4,272,000	4,272,000	4,272,000	4,272,000	4,272,000	4,272,000	
otal Operations and Maintenance Transfers	184,242,800	170,321,527	171,170,592	162,161,294	159,806,226	149,348,243	
ledged revenue	\$ 234,142,557	\$ 246,462,428	\$ 237,025,827	\$ 254,119,759	\$ 264,608,661	\$ 284,044,659	
rincipal and interest funding requirement [4]:							
Senior lien bonds	\$ 124,309,692	\$ 123,798,304	\$ 122,318,928	\$ 119,230,820	\$ 127,687,420	\$ 134,234,660	
Second lien bonds	46,840,350	51,731,158	47,849,350	46,214,385	42,852,813	38,990,023	
otal senior and second lien bonds	171,150,042	175,529,462	170,168,278	165,445,205	170,540,233	173,224,683	
Junior lien bonds	5,439,273	3,684,917	2,700,795	2,521,249	2,009,658	1,785,328	
otal all bonds	\$ 176,589,315	<u>\$ 179,214,379</u>	\$ 172,869,073	<u>\$ 167,966,454</u>	<u>\$ 172,549,891</u>	\$ 175,010,011	
tate covenant basis debt service coverage							
Senior lien bonds	1.88	1.99	1.94	2.13	2.07	2.12	
Senior and second lien bonds	1.37	1.40	1.39	1.54	1.55	1.64	
All bonds, including SRF junior lien	1.33	1.38	1.37	1.51	1.53	1.62	

<sup>[1]</sup> GLWA started operations on January 1, 2016. Due to the bifurcation from DWSD the Rate Covenant Basis cannot be computed for 2016.

<sup>[2]</sup> For years prior to 2022 a different methodology was used. A calculation was performed to determine the cash basis disbursements from the operations fund.

<sup>[3]</sup> The legacy pension obligations reflects only the Legacy Pension Obligation as defined in Section 504 (c) of the Water Master Bond Ordinance.

<sup>[4]</sup> Calculated on a debt set aside basis consistent with rate covenant basis for rate determination purposes.

<sup>[5]</sup> In preparation of the 2022 Water Official Statements this historical information was revised and differs from last year's Annual Comprehensive Financial Report.



Schedule 12c

#### **GREAT LAKES WATER AUTHORITY**

DEBT SERVICE COVERAGE - GAAP BASIS - SEWAGE DISPOSAL SYSTEM As of June 30, 2022

	2022	2021	2020	2019	2018	2017	2016 [1]
GLWA Revenues Suburban Wholesale Customers DWSD Local system charges Industrial waste charges Pollutant surcharges Other Revenue Earnings on investments [2]	\$ 268,813,369 188,662,200 8,300,278 5,181,816 817,448 1,842,475	\$ 267,567,816 187,959,700 8,004,939 6,719,964 6,481,905 2,802,041	\$ 266,003,286 185,807,300 7,854,593 6,448,508 6,491,617 7,775,080	\$ 272,772,460 181,159,300 9,106,274 5,932,550 506,323 9,592,270	\$ 268,978,831 178,969,200 14,334,979 6,908,404 4,391,145 4,022,582	\$ 298,376,775 187,304,100 14,381,106 5,206,294 538,807 1,384,225	\$ 121,106,353 95,826,900 6,910,192 2,423,910 4,197,614 586,072
Total GLWA Revenues	473,617,586	479,536,365	480,380,384	479,069,177	477,605,141	507,191,307	231,051,041
DWSD Local System Revenues [7] Local system revenues [3] Other Revenue	134,309,680 1,554,717	79,360,298 915,216	80,935,263 914,969	71,542,770 346,821	84,018,973 159,535	45,587,339 4,617,148	206,870,710 (940,714)
Total DWSD Local System Revenues	135,864,397	80,275,514	81,850,232	71,889,591	84,178,508	50,204,487	205,929,996
Total Revenue	609,481,983	559,811,879	562,230,616	550,958,768	561,783,649	557,395,794	436,981,037
Operating Expenses GLWA operating expenses GASB 87 and GASB 96 expenditures [4] O&M transfers:	186,918,677 1,041,308	178,101,424 118,759	176,949,460	174,040,805	176,379,404	151,318,266	84,380,021
DWSD Local System operations Legacy Pension Regional System [5] Legacy Pension DWSD Local System [5]	61,301,000 10,824,000 2,856,000	69,915,700 10,824,000 2,856,000	55,243,500 10,824,000 2,856,000	56,767,920 10,824,000 2,856,000	60,517,992 10,824,000 2,856,000	41,535,600 10,824,000 2,856,000	16,949,400 5,412,000 1,428,000
Total Operating Expenses	262,940,985	261,815,883	245,872,960	244,488,725	250,577,396	206,533,866	108,169,421
Pledged revenue	\$ 346,540,998	\$ 297,995,996	\$ 316,357,656	\$ 306,470,043	\$ 311,206,253	\$ 350,861,928	\$ 328,811,616
Principal and interest funding requirement [6]: Senior lien bonds Second lien bonds Total senior and second lien bonds Junior lien bonds	\$ 130,404,294	\$ 119,217,128 57,778,951 176,996,079 53,166,797	\$ 147,310,565 45,878,850 193,189,415 52,593,843	\$ 145,795,507 43,922,600 189,718,107 49,454,156	\$ 141,718,836	\$ 140,854,010 47,918,639 188,772,649 45,782,165	\$ 140,191,016
Total all bonds	\$ 235,847,946	\$ 230,162,876	\$ 245,783,258	\$ 239,172,263	\$ 232,280,832	\$ 234,554,814	\$ 228,570,571
GAAP basis debt service coverage Senior lien bonds Senior and second lien bonds All bonds, including SRF junior lien	2.66 1.90 1.47	2.50 1.68 1.29	2.15 1.64 1.29	2.10 1.62 1.28	2.20 1.68 1.34	2.49 1.86 1.50	2.35 1.74 1.44

<sup>[1]</sup> GLWA started operations on January 1, 2016. Includes 6 months under operations of DWSD and 6 months under the operations of GLWA under the Master Bond Ordinances in effect during the respective time periods.

<sup>[2]</sup> Excludes investment earnings on bond proceeds in construction fund

<sup>[3]</sup> Local Service Revenue reported net of bad debt expense.

<sup>[4]</sup> Amounts recorded under GASB 96 for financial reporting purposes are treated as operating expenditures for budget purposes and the debt service coverage calculation.

<sup>[5]</sup> The legacy pension obligations reflects only the Legacy Pension Obligation as defined in Section 504(c) of the Water Master Bond Ordinance.

<sup>[6]</sup> Calculated on a debt set aside basis consistent with rate covenant basis for rate determination purposes.

<sup>[7]</sup> At the time of the issuance of the GLWA financial report, DWSD's audited financial report had not been released. Amounts used were provided by DWSD's management of the preliminary financial results for the year ended June 30, 2022.



DEBT SERVICE COVERAGE - RATE COVENANT BASIS - SEWAGE DISPOSAL SYSTEM As of June 30, 2022

	2022	2021	2020 [4]	2019	2018	2017	2016 [1]
GLWA Receipts							
Wholesale System Receipts	\$ 280,048,244	\$ 286,580,811	\$ 291,884,274	\$ 281,485,522	\$ 294,503,834	\$ 281,528,551	
DWSD Local system charges	188,662,200	187,959,700	185,807,300	181,159,300	178,969,200	187,304,100	
Investment Earnings	1,680,667	2,739,425	5,372,063	5,098,922	2,796,727	372,505	
otal GLWA Receipts	470,391,111	477,279,936	483,063,637	467,743,744	476,269,761	469,205,156	
DWSD Local System Receipts	102,618,696	120,251,068	78,882,259	82,349,510	60,314,827	43,553,820	
otal Receipts	573,009,807	597,531,004	561,945,896	550,093,254	536,584,588	512,758,976	
Operations and Maintenance Transfers							
GLWA Regional system operations [2]	191,908,600	165,588,970	176,416,149	171,899,072	172,614,312	172,965,094	
DWSD Local System operations	61,301,000	69,915,700	55,243,500	56,767,920	60,517,992	41,535,600	
Legacy Pension Regional System [3]	10,824,000	10,824,000	10,824,000	10,824,000	10,824,000	10,824,000	
Legacy Pension DWSD Local System [3]	2,856,000	2,856,000	2,856,000	2,856,000	2,856,000	2,856,000	
otal Operations and Maintenance Transfers	266,889,600	249,184,670	245,339,649	242,346,992	246,812,304	228,180,694	
ledged revenue	\$ 306,120,207	\$ 348,346,334	\$ 316,606,247	\$ 307,746,262	\$ 289,772,284	\$ 284,578,282	
rincipal and interest funding requirement [4]:							
Senior lien bonds	\$ 130,404,294	\$ 119,217,128	\$ 147,310,565	\$ 145,795,507	\$ 141,718,836	\$ 140,854,010	
Second lien bonds	51,893,038	57,778,951	45,878,850	43,922,600	43,990,100	47,918,639	
otal senior and second lien bonds	182,297,332	176,996,079	193,189,415	189,718,107	185,708,936	188,772,649	
Junior lien bonds	53,550,614	53,166,797	52,593,843	49,454,156	46,571,896	45,782,165	
otal all bonds	\$ 235,847,946	\$ 230,162,876	\$ 245,783,258	\$ 239,172,263	\$ 232,280,832	\$ 234,554,814	
ate covenant basis debt service coverage							
Senior lien bonds	2.35	2.92	2.15	2.11	2.04	2.02	
Senior and second lien bonds	1.68	1.97	1.64	1.62	1.56	1.51	
All bonds, including SRF junior lien	1.30	1.51	1.29	1.29	1.25	1.21	

<sup>[1]</sup> GLWA started operations on January 1, 2016. Due to the bifurcation from DWSD the Rate Covenant Basis cannot be computed for 2016.

<sup>[2]</sup> For years prior to 2022 a different methodology was used. A calculation was performed to determine the cash basis disbursements from the operations fund.

<sup>[3]</sup> The legacy pension obligations reflects only the Legacy Pension Obligation as defined in Section 504 (c) of the Water Master Bond Ordinance.

<sup>[4]</sup> Calculated on a debt set aside basis consistent with rate covenant basis for rate determination purposes.



## SERVICE AREA DEMOGRAPHICS Last Ten Years

											Debt Service as
			Unemployment	Pe	er Capita			Total Debt	D	ebt Per	a Percentage of
Year		Population (1)	(2)	Ind	come (3)			Service (5)	(	Capita	Income
\					(0)	•		333 (0)			
Water Fu	na			_			_		_		
2022		3,800,000	4.6%	\$	59,590	(4)	\$	176,589,315	\$	46.47	0.08%
2021		3,800,000	6.2%		58,971	(4)		179,214,379		47.16	0.08%
2020		3,800,000	11.5%		58,356			172,869,073		45.49	0.08%
2019		3,800,000	4.3%		54,172			167,966,454		44.20	0.08%
2018		3,800,000	4.3%		52,572			172,549,891		45.41	0.09%
2017		3,800,000	4.6%		50,863			175,010,011		46.06	0.09%
2016	*	3,800,000	5.3%		49,179			171,138,525		45.04	0.09%
2015	*	3,800,000	5.9%		47,799			178,923,900		47.09	0.10%
2014	*	3,800,000	8.1%		44,966			182,464,900		48.02	0.11%
2013	*	3,800,000	9.7%		42,725			172,458,800		45.38	0.11%
Sewage D	)isp	osal Fund									
2022		2.800.000	4.6%	\$	59,590	(4)	\$	235,847,946	\$	84.23	0.14%
2021		2,800,000	6.2%	Ψ	58,971	(4)	•	230,162,876	Ψ	82.20	0.14%
2020		2,800,000	11.5%		58,356	( . )		245,783,258		87.78	0.15%
2019		2,800,000	4.3%		54,172			239,172,263		85.42	0.16%
2018		2,800,000	4.3%		52,572			232,280,832		82.96	0.16%
2017		2,800,000	4.6%		50,863			234,554,814		83.77	0.16%
2016	*	2,800,000	5.3%		49,179			228,570,571		81.63	0.17%
2015	*	2,807,000	5.9%		47,799			232,612,800		82.87	0.17%
2013	*	2,807,000	8.1%		44,966			229,611,100		81.80	0.17 %
2014	*				•						
2013		2,807,000	9.7%		42,725			225,222,900		80.24	0.19%

- (1) Source: Estimated based on data from Southeast Michigan Council of Governments (SEMCOG).
- (2) Source: Bureau of Labor Statistics Detroit-Warren-Dearborn MSA Annual Average (For 2022 the June rate was used). The Detroit-Warren-Dearborn Metropolitan Statistical Area (MSA) is comprised of six counties: Wayne, Oakland, Macomb, Livingston, Lapeer and St. Clair. This represents the majority of the service area customers.
- (3) Source: FRED Economic Data, St. Louis Fed (Prior year amounts have been updated to match current information from FRED)
- (4) Source: Michigan State University Center for Economic Analysis
- (5) Debt service is based on set aside debt service requirements for the fiscal year which includes the subsequent year July 1st debt payment.
- \* GLWA assumed operations on January 1, 2016. The information in this table from 2013-2015 is based on operations under the City of Detroit Water and Sewerage Department (DWSD). Data for 2016 includes six months of operation under DWSD and six months of operation under GLWA.



LARGEST EMPLOYERS
Current Year and 9 years prior

		Fiscal Year 2022		Fiscal Year 2013			
Employer	Type of Business	Full- Time Employees (a)	Rank	Percent of Total Employment (b)	Full- Time Employees (c)	Rank	Percent of Total Employment (d)
Ford Motor Co.	Automobile Manufacturer	47,750	1	2.40%	43,977	1	2.37%
Stellantis NV (Formerly FCA US LLC)	Automobile Manufacturer	37,761	2	1.90%	29,006	3	1.56%
University of Michigan	Public University and Health System	35,185	3	1.77%	29,551	2	1.59%
General Motors Co.	Automobile Manufacturer	33,935	4	1.70%	26,843	4	1.45%
Beaumont Health	Health Care System	24,668	5	1.24%	13,134	9	0.71%
U.S. Government	Federal Government	19,953	6	1.00%	18,600	5	1.00%
Rocket Companies Inc.	Holding company consisting of technology, personal finance and consumer service brands	18,000	7	0.90%	n/a	n/a	n/a
Henry Ford Health System	Health Care System	17,875	8	0.90%	17,831	6	0.96%
Trinity Health Michigan	Health Care System	12,991	9	0.65%	14,062	7	0.76%
Ascension Michigan (Formerly St. John's Providence)	Health Care System	12,452	10	0.63%	12,002	10	0.65%
Detroit Medical Center	Health Care System	n/a	n/a	n/a	13,458	8	0.72%
Total		260,570		13.08%	218,464		11.76%

<sup>(</sup>a) Employment data from July 2021 Crain's Detroit Business (most recent available), Largest Southeast Michigan Employers - Ranked by full-time employees

<sup>(</sup>b) Percentage base on U.S. Bureau of Labor Statistics from July 2021 of 1,991,991 for the Detroit-Warren-Dearborn, MI Metropolitan Statistical Area

<sup>(</sup>c) Employment data from July 2013 Crain's Detroit Business, Largest Metro Detroit Employers - Ranked by full-time employees

<sup>(</sup>d) Percentage base on U.S. Bureau of Labor Statistics from July 2013 of 1,857,269 for the Detroit-Warren-Dearborn, MI Metropolitan Statistical Area



PRODUCED AND BILLED WATER VOLUMES (Mcf)

		Rep	orted Water Sales			
Fiscal Year	Water Produced [1]	Wholesale Billed [2]	Local System Billed [3]	Total Water Billed	Non-Revenue Water Estimate	Non-Revenue Water Estimate % of Production
2022	20,498,700	13,205,300	4,297,300	17,502,600	2,996,100	14.6%
2021	20,565,800	14,258,300	4,120,000	18,378,300	2,187,500	10.6%
2020	19,989,500	13,578,700	4,161,300	17,740,000	2,249,500	11.3%
2019	20,968,100	13,708,600	4,354,600	18,063,200	2,904,900	13.9%
2018	23,228,600	14,391,800	4,428,200	18,820,000	4,408,600	19.0%
2017	23,915,600	14,824,000	4,465,800	19,289,800	4,625,800	19.3%
2016 *	23,580,700	14,730,400	4,649,100	19,379,500	4,201,200	17.8%

The table for historical water sales and reported total water production presents water volume in thousands of cubic feet ("Mcf") for suburban wholesale customers, for the Retail Water Customers, and for the Regional Water System as a whole, together with total water production and non-revenue water volume. As is common for all large water systems, the Regional Water System experiences a differential between the quantity of water produced by the treatment plants during the fiscal year and the quantity of water billed to customers over the same period, and the difference is referred to as "non-revenue water." Non-revenue water results from a variety of factors such as the range of accuracy of production and retail meters, losses due to leaks or major breaks in the transmission and distribution systems, unmetered water that is used for fire protection, and the accuracy of estimates for unmetered use. The Authority believes that improvements in the accuracy of the reported production figures may reduce the level of non-revenue water. Production at some of the water plants is not metered, but rather is estimated based on pump curves. The data continues to be reviewed, and the Authority has initiated efforts to measure production figures and refine production estimating techniques.

The schedule of charges for each of the wholesale customers consists of a fixed monthly charge and a commodity charge applied to monthly metered water usage. While the overall methodology used to determine charges for each customer is uniform, the service charge schedule for each customer is unique, reflecting the specific volumes, peak demands, and other demographic information in their individual contracts. Charges are designed to recover 60% of the revenue requirement via fixed monthly charges, with the other 40% generated by commodity charges.

- [1] Represents, in part, estimated volumes based on pump curves and engineering analysis. GLWA engineering studies in 2017 concluded that the total water production values for calendar year 2016 were over-reported by 5.8%.
- [2] Represents metered amounts for all suburban wholesale customers, with the exception of Dearborn which is based on selfreported billed volumes (including local system losses), and Highland Park, which is based on estimated volumes.
- [3] The GLWA charges the DWSD local system a flat charge based on average historical usage from DWSD retail billings data adjusted for water loss. These amounts reflect retail water sales as reported by DWSD plus estimated real and apparent losses in the local distribution system based on engineering studies.
- \* GLWA assumed operations on January 1, 2016. Data for 2016 includes six months of operation under DWSD and six months of operation under GLWA. This schedule is being built prospectively. Ultimately, 10 years of data will be presented.



WASTEWATER VOLUMES (Mcf)

Customer Wastewater Volume [2]						
Fiscal		Wastewater	Metered	Unmetered	"System"	
Year	_	Influent [1]	Customers	Customers [3]	Volume [3]	
2022	*	36,008,500	15,496,000	11,451,400	9,061,100	
2021		27,543,700	11,773,200	8,929,500	6,841,000	
2020		30,856,000	13,812,000	9,633,400	7,410,600	
2019		34,080,800	14,658,300	10,913,300	8,509,200	
2018		32,139,200	13,587,800	10,487,000	8,064,400	
2017		33,623,600	14,141,100	10,788,000	8,694,500	
2016	**	29,336,600	12,802,100	11,288,400	5,246,100	

Treated and billed wastewater volumes are monitored by GLWA operations and engineering teams throughout the year then go through a formal review and approval process over a period of six to nine months following the end of the fiscal year. The formal, annual, data analytic review is led by an outside consultant. As part of this process preliminary data is shared with customers to confirm. Current and historic data does change at times as system improvements are made and reporting refinements occur.

- [1] Represents total influent volume to the System, including volumes treated and discharged at the Water Resource Recovery Facility and volumes discharged via Combined Sewer Overflow facilities
- [2] The GLWA Sewer Charge Methodology uses historical wastewater volumes to allocate annual revenue requirements to the member partners based on historical wastewater volumes, and recovers the allocated revenue requirements via fixed monthly charges.
- [3] The GLWA Sewer Charge Methodology assigns a portion of the unmetered non-sanitary flow volume as a "system" responsibility allocable to all member partners. The remaining amount is assigned to unmetered customers, which includes the Local System and certain wholesale customers.
- \* Data is preliminary
- \*\* GLWA assumed operations on January 1, 2016. Data for 2016 includes six months of operation under City of Detroit Water and Sewerage Department (DWSD) and six months of operation under GLWA.

This schedule is being built prospectively. Ultimately, 10 years of data will be presented.



ADDITIONAL SUMMARY STATISTICS \*

	2022	2021	2020	2019	2018	2017	2016
Capital Asset Statistics - Water					•		
Water Treatment Plants	5	5	5	5	5	5	5
Intake Facilities	3	3	3	3	3	3	3
Booster Pumping Stations	19	19	19	19	19	19	19
Water Storage Reservoirs	32	32	32	32	32	32	32
Miles of Transmission Lines	816	816	816	816	803	803	803
Capital Asset Statistics - Sewer							
Water Resource Recovery Facility	1	1	1	1	1	1	1
Major Interceptors	3	3	3	3	3	3	3
Pump Stations [1]	9	9	9	9	9	9	9
Combined Sewer Overflow Facilities:							
Retention Treatment Basins	5	5	5	5	5	5	5
Flow-through Type Facilities	3	3	3	3	3	3	3
Miles of Trunk Sewers and Interceptors	195	195	195	195	181	181	181
GLWA Employees							
Water Operations	203	211	211	213	205	180	155
Sewage Disposal Operations	298	320	344	369	358	342	320
Centralized Services	295	298	302	295	276	249	217
Administrative Services	152	156	152	147	129	110	90
Total Employees	948	985	1,009	1,024	968	881	782

<sup>[1]</sup> GLWA operates nine pump stations. This count includes four pump stations that are owned by DWSD and operated by GLWA under a shared services agreement.

<sup>\*</sup> GLWA began operations on January 1, 2016. This schedule is being built prospectively. Ultimately, 10 years of data will be presented.

# **Great Lakes Water Authority**

Report on Federal Awards

June 30, 2022

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# Report on Internal Control Over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance With Government Auditing Standards

Independent Auditors' Report

To the Board of Directors of Great Lakes Water Authority

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States (*Government Auditing Standards*), the financial statements of the business-type activities, and each major fund of the Great Lakes Water Authority (the Authority), as of and for the year ended June 30, 2022, and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements, and have issued our report thereon dated December 16, 2022.

## **Report on Internal Control Over Financial Reporting**

In planning and performing our audit of the financial statements, we considered the Authority's internal control over financial reporting (internal control) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal control. Accordingly, we do not express an opinion on the effectiveness of the Authority's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A material weakness is a deficiency, or a combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected, on a timely basis. A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses or significant deficiencies may exist that were not identified.

#### **Report on Compliance and Other Matters**

As part of obtaining reasonable assurance about whether the Authority's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the financial statements. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

## **Purpose of This Report**

The purpose of this report is solely to describe the scope of our 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. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

Madison, Wisconsin December 16, 2022

## Report on Compliance for Each Major Federal Program; Report on Internal Control Over Compliance; and Report on the Schedule of Expenditures of Federal Awards Required by the Uniform Guidance

## Independent Auditors' Report

To the Board of Directors of Great Lakes Water Authority

## Report on Compliance for Each Major Federal Program

## Opinion on Each Major Federal Program

We have audited the Great Lakes Water Authority's (the Authority) compliance with the types of compliance requirements identified as subject to audit in the OMB *Compliance Supplement* that could have a direct and material effect on each of the Authority's major federal programs for the year ended June 30, 2022. The Authority's major federal programs are identified in the summary of auditors' results section of the accompanying schedule of findings and questioned costs.

In our opinion, the Authority complied, in all material respects, with the compliance requirements referred to above that could have a direct and material effect on each of its major federal programs for the year ended June 30, 2022.

## Basis for Opinion on Each Major Federal Program

We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America (GAAS); the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States (*Government Auditing Standards*); and the audit requirements of Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Our responsibilities under those standards and the Uniform Guidance are further described in the Auditors' Responsibilities for the Audit of Compliance section of our report.

We are required to be independent of the Authority and to meet our other ethical responsibilities, in accordance with relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our on compliance for each major federal program. Our audit does not provide a legal determination of the Authority's compliance with the compliance requirements referred to above.

## Responsibilities of Management for Compliance

Management is responsible for compliance with the requirements referred to above and for the design, implementation and maintenance of effective internal control over compliance with the requirements of laws, statutes, regulations, rules and provisions of contracts or grant agreements applicable to the Authority's federal programs.

## Auditors' Responsibilities for the Audit of Compliance

Our objectives are to obtain reasonable assurance about whether material noncompliance with the compliance requirements referred to above occurred, whether due to fraud or error, and express an opinion on the Authority's compliance based on our audit. 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, *Government Auditing Standards*, and the Uniform Guidance will always detect material noncompliance when it exists. The risk of not detecting material noncompliance resulting from fraud is higher than for that resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations or the override of internal control. Noncompliance with the compliance requirements referred to above 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 of the report on compliance about the Authority's compliance with the requirements of each major federal program as a whole.

In performing an audit in accordance with GAAS, *Government Auditing Standards*, and the Uniform Guidance, we

- exercise professional judgment and maintain professional skepticism throughout the audit.
- identify and assess the risks of material noncompliance, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the Authority's compliance with the compliance requirements referred to above and performing such other procedures as we considered necessary in the circumstances.
- obtain an understanding of the Authority's internal control over compliance relevant to the audit in
  order to design audit procedures that are appropriate in the circumstances and to test and report on
  internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of
  expressing an opinion on the effectiveness of the Authority's internal control over compliance.
  Accordingly, no such opinion is expressed.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and any significant deficiencies and material weaknesses in internal control over compliance that we identified during the audit.

#### **Report on Internal Control Over Compliance**

A deficiency in internal control over compliance exists when the design or operation of a control over compliance does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, noncompliance with a type of compliance requirement of a federal program on a timely basis. A material weakness in internal control over compliance is a deficiency, or a combination of deficiencies, in internal control over compliance, such that there is a reasonable possibility that material noncompliance with a type of compliance requirement of a federal program will not be prevented, or detected and corrected, on a timely basis. A significant deficiency in internal control over compliance is a deficiency, or a combination of deficiencies, in internal control over compliance with a type of compliance requirement of a federal program that is less severe than a material weakness in internal control over compliance, yet important enough to merit attention by those charged with governance.

Our consideration of internal control over compliance was for the limited purpose described in the Auditors' Responsibilities for the Audit of Compliance section above and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies in internal control over compliance. Given these limitations, during our audit we did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses, as defined above. However, material weaknesses or significant deficiencies in internal control over compliance may exist that were not identified.

Our audit was not designed for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, no such opinion is expressed.

The purpose of this report on internal control over compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance. Accordingly, this report is not suitable for any other purpose.

## Report on Schedule of Expenditures of Federal Awards Required by the Uniform Guidance

We have audited the financial statements of the business-type activities, and each major fund of the Authority as of and for the year ended June 30, 2022, and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements. We issued our report thereon dated December 16, 2022, which contained an unmodified opinion on those financial statements. Our audit was conducted for the purpose of forming opinions on the basic financial statements that collectively comprise the basic financial statements. The accompanying schedule of expenditures of federal awards is presented for purposes of additional analysis as required by the Uniform Guidance and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the schedule of expenditures of federal awards is fairly stated in all material respects in relation to the basic financial statements as a whole.

Madison, Wisconsin December 16, 2022

## **Great Lakes Water Authority**

Schedule of Expenditures of Federal Awards For the Year Ended June 30, 2022

Federal Grantor/Pass-through Agency Program Title	Assistance Listing Number	Pass-through Agency Grant Number	Payments Made to Subrecipients	Federal Expenditures
Federal Programs				
U.S ENVIRONMENTAL PROTECTION AGENCY				
Passed-through the Michigan Department of Environment, Great Lakes and Energy Clean Water State Revolving Fund Cluster Capitalization Grants for Clean Water State Revolving Funds: State Revolving Fund Loan State Revolving Fund Loan	66.458 66.458	5655-02 5673-01	\$ - -	\$ 3,670,718 2,010,107
State Revolving Fund Loan	66.458	5688-01	45,808	45,808
Total Clean Water State Revolving Fund Cluster			45,808	5,726,633
Passed-through the Michigan Department of Environment, Great Lakes and Energy Drinking Water State Revolving Fund Cluster Capitalization Grants for Drinking Water State Revolving Funds:				
State Revolving Fund Loan	66.468	7445-01	_	3,122,930
State Revolving Fund Loan	66.468	7445-02	_	393,613
State Revolving Fund Loan	66.468	7461-02	-	8,555,273
State Revolving Fund Loan	66.468	7483-01	326,946	326,946
Total Drinking Water State Revolving Fund Cluster			326,946	12,398,762
Total U.S. Environmental Protection Agency			372,754	18,125,395
U.S DEPARTMENT OF HOMELAND SECURITY Passed-through the Michigan State Police				
COVID-19 Emergency Protective Measures Covid-19 Public Assistance	97.036	4494DR-MI		292,256
Total Federal Programs			\$ 372,754	\$ 18,417,651

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Notes to Schedule of Expenditures of Federal Awards For the Year Ended June 30, 2022

#### 1. Basis of Presentation

The accompanying schedule of expenditures of federal awards (the Schedule) includes the federal award activity of the Great Lakes Water Authority (the Authority) under programs of the federal government for the year ended June 30, 2022. The information in this Schedule is presented in accordance with the requirements of Title 2 U.S. Code of Federal Regulations Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance). Because the Schedule presents only a selected portion of the operations of the Authority, it is not intended to and does not present the financial position, changes in net position or cash flows of the Authority.

### 2. Summary of Significant Accounting Policies

Expenditures reported on the Schedule are reported on the modified cash basis of accounting, which is described as follows:

## Basis of Accounting for U.S. Environmental Protection Agency Programs

In general, expenditures are reported in the Schedule when the Authority remits payment to a vendor or contractor, rather than when an expense is incurred by the Authority in accordance with Generally Accepted Accounting Principles (GAAP). Additionally, any amounts paid to subrecipients are included when paid or transferred instead of when incurred. The Authority reports its expenditures using this method based on guidance it received from the Michigan Department of Environment, Great Lakes, and Energy (EGLE), which serves as the pass-through entity for all of the Authority's federally funded loan programs.

## Pre-Award Costs for U.S. Environmental Protection Agency Programs

In addition to the above, awarding agencies may approve reimbursement of costs related to projects undertaken (and paid to vendors) in prior periods. In those cases, as the payments were not previously reported as federal expenditures, they are reported on the Schedule in the period reimbursement is approved by the awarding agency.

Such expenditures are recognized following the cost principles contained in the Uniform Guidance, wherein certain types of expenditures are not allowable or are limited as to reimbursement. Pass-through entity identifying numbers are presented where available.

#### Basis of Accounting for U.S. Department of Homeland Security Programs

In general, expenditures are reported in the Schedule when FEMA has approved the PW (project worksheet) and the Authority has incurred eligible expenditures. The Authority incurred eligible expenses of \$84,244 in fiscal year ended June 30, 2020 and \$208,012 in fiscal year ended June 30, 2021, which were approved by FEMA in fiscal year ended June 30, 2022.

#### 3. Indirect Cost Rate

The Authority has not elected to use the 10 percent de minimis indirect cost rate.

**DRAFT 11.29.21** 

Schedule of Findings and Questioned Costs For the Year Ended June 30, 2022

## Section I - Summary of Auditors' Results

## **Financial Statements**

Type of report the auditor issued or financial statements audited were paccordance with GAAP:		Unmod	dified		
Internal control over financial report Material weakness identified? Significant deficiency identified	· ·		yes yes	X X	no none reported
Noncompliance material to financia	I statements noted?		yes	X	no
Federal Awards					
Internal control over major program Material weakness identified? Significant deficiency identified			yes yes	X X	no none reported
Type of auditor's report issued on of for major programs:	compliance	Unmod	dified		
Any audit findings disclosed that ar reported in accordance with sectior the Uniform Guidance?		of	yes	X	no
Auditee qualified as low-risk audite	e?	X	yes		no
Identification of major federal progr	ams:				
Assistance Listing Number 66.458	Name of Clean Water State F Grants for Clean	Revolvin	g Fund C		Capitalization
97.036	COVID-19 Emergen Assistance	cy Prote	ctive Me	asures C	ovid-19 Public
Dollar threshold used to distinguish and type B programs:	between type A		\$ 750,00	00	-

Schedule of Findings and Questioned Costs For the Year Ended June 30, 2022

Section II - Financial Statement Findings Required to be Reported in Accordance with Government Auditing Standards

None reported.

**Section III - Federal Awards Findings and Questioned Costs** 

None reported.



# **Executive summary**

	2022

To the Board of Directors Great Lakes Water Authority Detroit, Michigan

We have completed our audit of the financial statements of the Great Lakes Water Authority (the Authority) for the year ended June 30, 2022, and have issued our report thereon dated December 16, 2022. This letter presents communications required by our professional standards.

Your audit should provide you with confidence in your financial statements. The audit was performed based on information obtained from meetings with management, data from your systems, knowledge of the Authority's operating environment and our risk assessment procedures. We strive to provide you clear, concise communication throughout the audit process and of the final results of our audit.

Additionally, we have included information on key risk areas Great Lakes Water Authority should be aware of in your strategic planning. We are available to discuss these risks as they relate to your organization's financial stability and future planning.

If you have questions at any point, please connect with us:

- Jodi L Dobson, Partner: jodi.dobson@bakertilly.com or +1 (608) 240 2469
- Gwen Zech, Senior Manager: <a href="mailto:gwen.zech@bakertilly.com">gwen.zech@bakertilly.com</a> or +1 (608) 240 2443

Sincerely,

Baker Tilly US, LLP

Jodi L Dobson, CPA, Partner

Gwen Zech, CPA, Senior Manager

# Responsibilities

## Our responsibilities

As your independent auditor, our responsibilities include:

- Planning and performing the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement. Reasonable assurance is a high level of assurance.
- Assessing the risks of material misstatement of the financial statements, whether due to fraud or error. Included in that assessment is a consideration of the Authority's internal control over financial reporting.
- Performing appropriate procedures based upon our risk assessment.
- Evaluating the appropriateness of the accounting policies used and the reasonableness of significant accounting estimates made by management.
- Forming and expressing an opinion based on our audit about whether the financial statements prepared by management, with the oversight of the Board of Directors
  - Are free from material misstatement
  - Present fairly, in all material respects and in accordance with accounting principles generally accepted in the United States of America
- Performing tests related to compliance with certain provisions of laws, regulations, contracts and grants, as required by Government Auditing Standards
- Considering internal control over compliance with requirements that could have a direct and material effect on major federal programs to design tests of both controls and compliance with identified requirements
- Forming and expressing an opinion based on our audit in accordance with OMB's Uniform
   Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards (Uniform
   Guidance) about the entity's compliance with requirements described in the OMB Compliance
   Supplement that could have a direct and material effect on each of its major federal programs.
- Our audit does not relieve management or the Board of Directors of their responsibilities.

We are also required to communicate significant matters related to our audit that are relevant to the responsibilities of the Board of Directors, including:

- Internal control matters
- Qualitative aspects of the Authority's accounting practice including policies, accounting estimates and financial statement disclosures
- Significant unusual transactions
- Significant difficulties encountered
- Disagreements with management
- Circumstances that affect the form and content of the auditors' report
- Audit consultations outside the engagement team
- Corrected and uncorrected misstatements
- Other audit findings or issues

## Audit status

## Significant changes to the audit plan

There were no significant changes made to either our planned audit strategy or to the significant risks and other areas of emphasis identified during the performance of our risk assessment procedures.

# Audit approach and results

## Planned scope and timing

## **Audit focus**

Based on our understanding of the Authority and environment in which you operate, we focused our audit on the following key areas:

- Key transaction cycles
- Areas with significant estimates
- Implementation of new accounting standards

Our areas of audit focus were informed by, among other things, our assessment of materiality. Materiality in the context of our audit was determined based on specific qualitative and quantitative factors combined with our expectations about the Authority's current year results.

## Key areas of focus and significant findings

## Significant risks of material misstatement

A significant risk is an identified and assessed risk of material misstatement that, in the auditor's professional judgment, requires special audit consideration. Within our audit, we focused on the following areas below.

Significant risk areas	Testing approach	Conclusion
Management override of controls	Incorporate unpredictability into audit procedures, emphasize professional skepticism and utilize audit team with industry expertise	Procedures identified provided sufficient evidence for our audit opinion
Improper revenue recognition due to fraud	Confirmation or validation of certain revenues supplemented with detailed predictive analytics based on non-financial data and substantive testing of related receivables	Procedures identified provided sufficient evidence for our audit opinion

## Other areas of emphasis

We also focused on other areas that did not meet the definition of a significant risk, but were determined to require specific awareness and a unique audit response.

Other areas of emphasis	Testing approach	
Cash and investments	Revenues and receivables	General disbursements
Payroll	Pension liability	Long-term debt
Capital assets including intangible assets	Net position calculations	Financial reporting and required disclosures
Shared services with and received from DWSD	Lease payables	Due to and due from other governments

## Internal control matters

We considered the Authority's internal control over financial reporting as a basis for designing our audit procedures for the purpose of expressing an opinion on the financial statements. We are not expressing an opinion on the effectiveness of the Authority's internal control.

Our consideration of internal control was for the limited purpose described in the preceding paragraph and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies and, therefore, material weaknesses or significant deficiencies may exist that were not identified.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis.

A material weakness is a deficiency or combination of deficiencies in internal control such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected, on a timely basis. We did not identify any deficiencies in internal control that we consider to be material weaknesses.

## Required communications

## **Qualitative aspect of accounting practices**

- Accounting policies: Management is responsible for the selection and use of appropriate accounting policies. In accordance with the terms of our engagement letter, we have advised management about the appropriateness of accounting policies and their application. The significant accounting policies used by the Authority are described in Note 1 to the financial statements. As described in Note 1, the Authority changed accounting policies related to Subscription-Based Information Technology Arrangements (SBITA) by adopting GASB Statement No. 96 in 2022. The standard was implemented at the start of a new SBITA software implementation accounted for in construction in progress, therefore there is no impact to the presentation of the financial statements. We noted no transactions entered into by the Authority during the year for which accounting policies are controversial or for which there is a lack of authoritative guidance or consensus or diversity in practice.
- Accounting estimates: Accounting estimates, including fair value estimates, are an integral part of the financial statements prepared by management and are based on management's knowledge and experience about past and current events and assumptions about future events. Certain accounting estimates are particularly sensitive because of their significance to the financial statements, the degree of subjectivity involved in their development and because of the possibility that future events affecting them may differ significantly from those expected. The following estimates are of most significance to the financial statements:

Estimate	Management's process to determine	Baker Tilly's conclusions regarding reasonableness
Net pension liability and related deferrals	Key assumptions set by management with the assistance of a third-party actuary	Reasonable in relation to the financial statements as a whole
Allowance for doubtful accounts	Evaluation of historical revenues and loss levels with the analysis on collectability of individual amounts	Reasonable in relation to the financial statements as a whole
Depreciation	Evaluate estimated useful life of the asset and original acquisition value	Reasonable in relation to the financial statements as a whole
Shared services subject to joint review and true up	Evaluation based on joint review and agreement between parties	Reasonable in relation to the financial statements as a whole

There have been no significant changes made by management to either the processes used to develop the particularly sensitive accounting estimates, or to the significant assumptions used to develop the estimates, noted above.

- Financial statement disclosures: The disclosures in the financial statements are neutral, consistent and clear.

## Significant unusual transactions

There have been no significant transactions that are outside the normal course of business for the Authority or that otherwise appear to be unusual due to their timing, size or nature.

## Significant difficulties encountered during the audit

We encountered no significant difficulties in dealing with management and completing our audit.

## **Disagreements with management**

Professional standards define a disagreement with management as a matter, whether or not resolved to our satisfaction, concerning a financial accounting, reporting or auditing matter that could be significant to the basic financial statements or the auditors' report. We are pleased to report that no such disagreements arose during the course of our audit.

## **Audit report**

There have been no departures from the auditors' standard report.

## Audit consultations outside the engagement team

We encountered no difficult or contentious matters for which we consulted outside of the engagement team.

#### **Uncorrected misstatements and corrected misstatements**

Professional standards require us to accumulate all known and likely misstatements identified during the audit, other than those that are trivial, and communicate them to the appropriate level of management. There were no misstatements identified.

## Other audit findings or issues

We encountered no other audit findings or issues that require communication at this time.

We generally discuss a variety of matters, including the application of accounting principles and auditing standards, with management each year prior to retention as the Authority's auditors. However, these discussions occurred in the normal course of our professional relationship and our responses were not a condition to our retention.

## Management's consultations with other accountants

In some cases, management may decide to consult with other accountants about auditing and accounting matters. Management informed us that, and to our knowledge, there were no consultations with other accountants regarding auditing or accounting matters.

## Written communications between management and Baker Tilly

The attachments include copies of other material written communications, including a copy of the management representation letter.

## Compliance with laws and regulations

We did not identify any non-compliance with laws and regulations during our audit.

#### Fraud

We did not identify any known or suspected fraud during our audit.

## Going concern

Pursuant to professional standards, we are required to communicate to you, when applicable, certain matters relating to our evaluation of the Authority's ability to continue as a going concern for a reasonable period of time but no less than 12 months from the date of the financial statements, including the effects on the financial statements and the adequacy of the related disclosures, and the effects on the auditor's report. No such matters or conditions have come to our attention during our engagement.

## Independence

We are not aware of any relationships between Baker Tilly and the Authority that, in our professional judgment, may reasonably be thought to bear on our independence.

## **Related parties**

We did not have any significant findings or issues arise during the audit in connection with the Authority's related parties.

#### Other matters

We applied certain limited procedures to the required supplementary information (RSI) that supplements the basic financial statements. Our procedures consisted of inquiries of management regarding the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements and other knowledge we obtained during our audit of the basic financial statements. We did not audit the RSI and do not express an opinion or provide any assurance on the RSI.

We were engaged to report on the supplementary information which accompanies the financial statements but is not RSI. With respect to the supplementary information, we made certain inquiries of management and evaluated the form, content and methods of preparing the information to determine that the information complies with accounting principles generally accepted in the United States of America or the modified cash basis of accounting, the method of preparing it has not changed from the prior period, and the information is appropriate and complete in relation to our audit of the financial statements. We compared and reconciled the supplementary information to the underlying accounting records used to prepare the financial statements or to the financial statements themselves.

We were not engaged to report on the other information, which accompanies the financial statements but are not RSI. We did not audit or perform other procedures on this other information and we do not express an opinion or provide any assurance on it.

# Audit committee resources

Visit our resource page for regulatory updates, trending challenges and opportunities in your industry and other timely updates.

Visit the resource page at <a href="https://www.bakertilly.com/insights/audit-committee-resource-page">https://www.bakertilly.com/insights/audit-committee-resource-page</a>.

# Management representation letter



December 16, 2022

Baker Tilly US, LLP 4807 Innovate Ln PO Box 7398 Madison, WI 53707

Dear Baker Tilly US, LLP:

We are providing this letter in connection with your audit of the financial statements of the Great Lakes Water Authority as of June 30, 2022 and for the year then ended for the purpose of expressing opinions as to whether the financial statements present fairly, in all material respects, the financial position of the Great Lakes Water Authority (Authority), each major enterprise fund, and the respective changes in financial position and cash flows, where applicable, in conformity with accounting principles generally accepted in the United States of America (GAAP). We confirm that we are responsible for the fair presentation of the previously mentioned financial statements in conformity with accounting principles generally accepted in the United States of America. We are also responsible for adopting sound accounting policies, establishing and maintaining internal control over financial reporting, and preventing and detecting fraud.

Certain representations in this letter are described as being limited to matters that are material. Items are considered material, regardless of size, if they involve an omission or misstatement of accounting information that, in the light of surrounding circumstances, makes it probable that the judgment of a reasonable person relying on the information would be changed or influenced by the omission or misstatement. An omission or misstatement that is monetarily small in amount could be considered material as a result of qualitative factors.

We confirm, to the best of our knowledge and belief, the following representations made to you during your audit.

## **Financial Statements**

- 1) We have fulfilled our responsibilities, as set out in the terms of the audit engagement letter.
- 2) The financial statements referred to above are fairly presented in conformity with accounting principles generally accepted in the United States of America and include all properly classified funds and other financial information of the Authority required by accounting principles generally accepted in the United States of America to be included in the financial reporting entity.

- 3) We acknowledge our responsibility for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.
- 4) We acknowledge our responsibility for the design, implementation, and maintenance of internal control to prevent and detect fraud.
- 5) Significant assumptions we used in making accounting estimates, including those measured at fair value, if any, are reasonable.
- 6) All events subsequent to the date of the financial statements and for which accounting principles generally accepted in the United States of America require adjustment or disclosure have been adjusted or disclosed. No other events, including instances of noncompliance, have occurred subsequent to the financial statement date and through the date of this letter that would require adjustment to or disclosure in the aforementioned financial statements or in the schedule of findings and questioned costs.
- 7) All material transactions have been recorded in the accounting records and are reflected in the financial statements and the schedule of expenditures of federal and state awards.
- 8) The effects of all known actual or possible litigation, claims, and assessments whose effects should be considered when preparing the financial statements, have been accounted for and disclosed in accordance with accounting principles generally accepted in the United States of America. There are no unasserted litigation, claims or assessments that our lawyer has advised us are probable of assertion.
- 9) Guarantees, whether written or oral, under which the Authority is contingently liable, if any, have been properly recorded or disclosed.

## **Information Provided**

- 10) We have provided you with:
  - a) Access to all information, of which we are aware, that is relevant to the preparation and fair presentation of the financial statements, such as financial records and related data, documentation, and other matters and all audit or relevant monitoring reports, if any, received from funding sources.
  - b) Additional information that you have requested from us for the purpose of the audit.



- c) Unrestricted access to persons within the entity from whom you determined it necessary to obtain audit evidence.
- d) Minutes of the meetings of Board of Directors or summaries of actions of recent meetings for which minutes have not yet been prepared.
- 11) We have disclosed to you results of our assessment of the risk that the financial statements may be materially misstated as a result of fraud.
- 12) We have no knowledge of any fraud or suspected fraud that affects the entity and involves:
  - a) Management,
  - b) Employees who have significant roles in internal control, or
  - c) Others where the fraud could have a material effect on the financial statements.
- 13) We have no knowledge of any allegations of fraud or suspected fraud affecting the entity received in communications from employees, former employees, regulators, or others.
- 14) We have no knowledge of known instances of noncompliance or suspected noncompliance with provisions of laws, regulations, contracts, or grant agreements, or abuse, whose effects should be considered when preparing financial statements.
- 15) There are no related parties or related party relationships and transactions, including side agreements, of which we are aware.

## Other

- 16) There have been no communications from regulatory agencies concerning noncompliance with, or deficiencies in, financial reporting practices.
- 17) We have taken timely and appropriate steps to remedy fraud, noncompliance with provisions of laws, regulations, contracts or grant agreements, or abuse that you have reported to us.
- 18) We have a process to track the status of audit findings and recommendations.
- 19) We have provided our views on reported findings, conclusions, and recommendations, as well as our planned corrective actions, for our report.



- 20) The Authority has no plans or intentions that may materially affect the carrying value or classification of assets, deferred outflows of resources, liabilities, deferred inflows of resources or net position.
- 21) We are responsible for compliance with federal, state, and local laws, regulations, and provisions of contracts and grant agreements applicable to us, including tax or debt limits, debt contracts, and IRS arbitrage regulations; and we have identified and disclosed to you all federal, state, and local laws, regulations and provisions of contracts and grant agreements that we believe have a direct and material effect on the determination of financial statement amounts or other financial data significant to the audit objectives, including legal and contractual provisions for reporting specific activities in separate funds.

## 22) There are no:

- a) Violations or possible violations of budget ordinances, federal, state, and local laws or regulations (including those pertaining to adopting, approving and amending budgets), provisions of contracts and grant agreements, tax or debt limits, and any related debt covenants whose effects should be considered for disclosure in the financial statements or as a basis for recording a loss contingency, or for reporting on noncompliance, except those already disclosed in the financial statement, if any.
- b) Other liabilities or gain or loss contingencies that are required to be accrued or disclosed by accounting principles generally accepted in the United States of America.
- c) Charges and/or rates being charged to customers other than the charges and/or rates as authorized by the applicable authoritative body.
- d) Violations of restrictions placed on revenues as a result of bond resolution covenants such as revenue distribution or debt service funding.
- 23) The Great Lakes Water Authority has satisfactory title to all owned assets, and there are no liens or encumbrances on such assets nor has any asset been pledged as collateral.
- 24) The Great Lakes Water Authority has complied with all aspects of contractual agreements that would have a material effect on the financial statement in the event of noncompliance.
- 25) The financial statements properly classify all funds and activities.
- 26) Components of net position (net investment in capital assets; restricted; and unrestricted) are properly classified and, if applicable, approved.



- 27) The Great Lakes Water Authority has no derivative financial instruments such as contracts that could be assigned to someone else or net settled, interest rate swaps, collars or caps.
- 28) Provisions for uncollectible receivables, if any, have been properly identified and recorded.
- 29) Interfund, internal, and intra-entity activity and balances have been appropriately classified and reported.
- 30) Deposits and investments are properly classified, valued, and disclosed (including risk disclosures, collateralization agreements, valuation methods, and key inputs, as applicable).
- 31) Provision, when material, has been made to reduce excess or obsolete inventories to their estimated net realizable value.
- 32) Capital assets, including infrastructure and intangible assets, are properly capitalized, reported, and, if applicable, depreciated/amortized. Any known impairments have been recorded and disclosed.
- 33) Tax-exempt bonds issued have retained their tax-exempt status.
- 34) We have appropriately disclosed the Great Lakes Water Authority's policy regarding whether to first apply restricted or unrestricted resources when an expense is incurred for purposes for which both restricted and unrestricted net position are available and have determined that net position was properly recognized under the policy.
- 35) We acknowledge our responsibility for the required supplementary information (RSI). The RSI is measured and presented within prescribed guidelines and the methods of measurement and presentation have not changed from those used in the prior period. We have disclosed to you any significant assumptions and interpretations underlying the measurement and presentation of the RSI.
- 36) With respect to the supplementary information, (SI):
  - a) We acknowledge our responsibility for presenting the SI in accordance with accounting principles generally accepted in the United States of America, and we believe the SI, including its form and content, is fairly presented in accordance with accounting principles generally accepted in the United States of America, as applicable. The methods of measurement and presentation of the SI have not changed from those used in the prior period, and we have disclosed to you any significant assumptions or interpretations underlying the measurement and presentation of the supplementary information.



- b) If the SI is not presented with the audited financial statements, we will make the audited financial statements readily available to the intended users of the supplementary information no later than the date we issue the supplementary information and the auditor's report thereon.
- 37) We have evaluated and considered all debt reported as defeased in substance and believe all material amounts held in trust that are not expressly prohibited from substitution in monetary assets that are not essentially risk-free are properly disclosed.
- 38) We have implemented GASB Statement No. 92, *Omnibus 2020*, and believe that all required disclosures and accounting considerations have been identified and properly classified in the financial statements in compliance with the Standard.
- 39) We have implemented GASB Statement No. 93, *Replacement of Interbank Offered Rates*, and believe that all required disclosures and accounting considerations have been identified and properly classified in the financial statements in compliance with the Standard.
- 40) We have implemented GASB Statement No. 96, *Subscription-Based Information Technology Arrangements*, and believe that all required disclosures and accounting considerations have been identified and properly classified in the financial statements in compliance with the Standard.
- 41) We have implemented GASB Statement No. 97, Certain Component Unit Criteria, and Accounting and Financial Reporting for Internal Revenue Code Section 457 Deferred Compensation Plans, and believe that all required disclosures and accounting considerations have been identified and properly classified in the financial statements in compliance with the Standard.
- 42) We have implemented GASB Statement No. 99, *Omnibus 2022*, and believe that all required disclosures and accounting considerations have been identified and properly classified in the financial statements in compliance with the Standard.
- 43) We have identified any leases or other contracts that are required to be reported as leases and are in agreement with the key assumptions used in the measurement of any lease related assets, liabilities or deferred inflows of resources.



- 44) We are responsible for the estimation methods and assumptions used in measuring assets and liabilities reported or disclosed at fair value, including information obtained from brokers, pricing services or third parties. Our valuation methodologies have been consistently applied from period to period. The fair value measurements reported or disclosed represent our best estimate of fair value as the measurement date in accordance with the requirements of GASB 72 *Fair Value Measurement*. In addition, our disclosures related to fair value measurements are consistent with the objectives outlined in GASB 72. We have evaluated the fair value information provided to us by brokers, pricing services or other parties that has been used in the financial statements and believe this information to be reliable and consistent with the requirements.
- 45) We have evaluated the existing outstanding debt for potential arbitrage liability. Any potential liability has been properly recorded.
- 46) We have evaluated existing contracts and agreements and are responsible for the accounting and financial reporting of any related capital or intangible assets, liabilities, receivables or deferred items in compliance with generally accepted accounting principles.
- 47) We are responsible for compliance with the funding requirements and the flow of funds as outlined in the Master Bond Ordinance.
- 48) We are responsible for the fair presentation of the Authority's net pension liability based upon calculations by the City of Detroit General Employees' Retirement System (GRS) and related amounts. We appropriately allocated the net pension liability based on the assumptions in the lease agreements, pension agreement and the allocation letter signed by the GLWA Chief Executive Officer and the Detroit Water & Sewerage Department (DWSD) Director on January 24, 2017. We have properly disclosed our special funding situation under GASB 68, Accounting and Financial Reporting for Pension Plans. We have reviewed the information provided by GRS for inclusions in the Authority's financial statements.
- 49) The auditing standards define an annual report as "a document, or combination of documents, typically prepared on an annual basis by management or those charged with governance in accordance with law, regulation, or custom, the purpose of which is to provide owners or similar stakeholders with information on the entity's operations and the financial results and financial position as set out in the financial statements." Among other items, an annual report contains, accompanies, or incorporates by reference the financial statements and the auditors' report thereon. The annual comprehensive financial report (ACFR) is an annual report. We have provided you with the final version of the annual report. There are no material inconsistencies between the financial statements and any other information contained within the annual report.



- 50) With respect to federal award programs:
  - a) We are responsible for understanding and complying with and have complied with the requirements of the Single Audit Act Amendments of 1996, *OMB's Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), including requirements relating to preparation of the schedule of expenditures of federal awards (SEFA).
  - b) We acknowledge our responsibility for preparing and presenting the SEFA and related disclosures in accordance with the requirements of the Uniform Guidance and we believe the SEFA, including its form and content, is fairly presented in accordance with the Uniform Guidance. The methods of measurement and presentation of the SEFA have not changed from those used in the prior period and we have disclosed to you any significant assumptions and interpretations underlying the measurement and presentation of the SEFA.
  - c) If the SEFA is not presented with the audited financial statements, we will make the audited financial statements readily available to the intended users of the SEFA no later than the date we issue the SEFA and the auditors' report thereon.
  - d) We have identified and disclosed to you all of our government programs and related activities subject to the Uniform Guidance and included in the SEFA, expenditures made during the audit period for all awards provided by federal agencies in the form of grants, federal cost reimbursement contracts, loans, loan guarantees, property (including donated surplus property), cooperative agreements, interest subsidies, insurance, food commodities, direct appropriations, and other direct assistance.
  - e) We are responsible for understanding and complying with, and have complied with the requirements of laws, regulations, and the provisions of contracts and grant agreements related to each of our federal programs and have identified and disclosed to you the requirements of laws, regulations, and the provisions of contracts and grant agreements that are considered to have a direct and material effect on each major federal program.
  - f) We are responsible for establishing and maintaining, and have established and maintained, effective internal control over compliance for federal programs that provide reasonable assurance that we are administering our federal awards in compliance with laws, regulations, and the provisions of contracts and grant agreements that could have a material effect on our federal programs. We believe the internal control system is adequate and is functioning as intended. Also, no changes have been made in the internal control over compliance or other factors to the date of this letter that might significantly affect internal control, including any corrective action taken with regard to control deficiencies reported in the schedule of findings and questioned costs.



- g) We have made available to you all contracts and grant agreements (including amendments, if any) and any other correspondence with federal agencies or pass-through entities relevant to the programs and related activities.
- h) We have received no requests from a federal agency to audit one or more specific programs as a major program.
- i) We have complied with the direct and material compliance requirements including when applicable, those set forth in the OMB Compliance Supplement relating to federal awards.
- j) We have disclosed any communications from grantors and pass-through entities concerning possible noncompliance with the direct and material compliance requirements, including communications received from the end of the period covered by the compliance audit to the date of the auditors' report.
- k) Amounts claimed or used for matching were determined in accordance with relevant guidelines in the Uniform Guidance.
- l) We have disclosed to you our interpretation of compliance requirements that may have varying interpretations.
- m)We have made available to you all documentation related to the compliance with the direct and material compliance requirements, including information related to federal program financial reports and claims for advances and reimbursements.
- n) We have disclosed to you the nature of any subsequent events that provide additional evidence about conditions that existed at the end of the reporting period affecting noncompliance during the reporting period.
- o) We are not aware of any instances of noncompliance with direct and material compliance requirements that occurred subsequent to the period covered by the auditors' report.
- p) No changes have been made in internal control over compliance or other factors that might significantly affect internal control, subsequent to the date as of which compliance was audited.
- q) Federal program financial reports and claims for advances and reimbursements are supported by the books and records from which the financial statements have been prepared.



- r) The copies of federal program financial reports provided you are true copies of the reports submitted, or electronically transmitted, to the respective federal agency or pass-through entity, as applicable.
- s) We have monitored subrecipients to determine that they have expended pass-through assistance in accordance with applicable laws and regulations and have met the requirements of the Uniform Guidance.
- t) We have taken appropriate action, including issuing management decisions, on a timely basis after receipt of subrecipients' auditors' reports that identified noncompliance with laws, regulations, or the provisions of contracts or grant agreements to ensure that subrecipients have taken the appropriate and timely corrective action on findings.
- u) We have considered the results of subrecipient audits and made any necessary adjustments to our books and records.
- v) We have charged costs to federal awards in accordance with applicable cost principles.
- w)We are responsible for and have accurately prepared the summary schedule of prior audit findings to include all findings required to be included by the Uniform Guidance *and* we have provided you with all information on the status of the follow-up on prior audit findings by federal awarding agencies and pass-through entities, including all management decisions.
- x) We are responsible for and have ensured the reporting package does not contain protected personally identifiable information.
- y) We are responsible for and have accurately prepared the auditee section of the Data Collection Form as required by the Uniform Guidance.

Sincerely,

Suzanne R. Coffey, PE, Chief Executive Officer

Nicolette N. Bateson, CPA, Chief Financial Officer/ Treasurer



# Client service team



Jodi L Dobson, CPA
Partner

4807 Innovate Ln.
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Gwen Zech, CPA
Senior Manager

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# Accounting changes relevant to Great Lakes Water Authority

Future accounting standards update

GASB Statement Number	Description	Effective Date
91	Conduit Debt	6/30/23
94	Public-Private and Public-Public Partnerships and Availability Payment Arrangements	6/30/23
100	Accounting Changes and Error Corrections – an amendment of GASB Statement No. 62	6/30/24
101	Compensated Absences	6/30/25

Further information on upcoming **GASB** pronouncements.

# Preparing for the new conduit debt reporting

Conduit debt includes arrangements where there are three separate parties involved including a third party that is obligated for payment, a debt holder or lender and an issuing party which is often a government. This standard provides additional criteria for identifying and classifying conduit debt with the intent of providing consistency in how the debt is recorded and reported in governmental financial statements. The Authority should identify any existing debt arrangements involving third-party obligors and evaluate how those arrangements will be reported under the new standard in order to determine the potential impact of this standard on future financial reporting.

# Two-way audit communications

As part of our audit of your financial statements, we are providing communications to you throughout the audit process. Auditing requirements provide for two-way communication and are important in assisting the auditor and you with more information relevant to the audit.

As this past audit is concluded, we use what we have learned to begin the planning process for next year's audit. It is important that you understand the following points about the scope and timing of our next audit:

- a. We address the significant risks of material misstatement, whether due to fraud or error, through our detailed audit procedures.
- b. We will obtain an understanding of the five components of internal control sufficient to assess the risk of material misstatement of the financial statements whether due to error or fraud, and to design the nature, timing and extent of further audit procedures. We will obtain a sufficient understanding by performing risk assessment procedures to evaluate the design of controls relevant to an audit of financial statements and to determine whether they have been implemented. We will use such knowledge to:
  - Identify types of potential misstatements.
  - Consider factors that affect the risks of material misstatement.
  - Design tests of controls, when applicable, and substantive procedures.
- c. We will not express an opinion on the effectiveness of internal control over financial reporting or compliance with laws, regulations and provisions of contracts or grant programs. For audits performed in accordance with *Government Auditing Standards*, our report will include a paragraph that states that the purpose of the report is solely to describe the scope of testing of internal control over financial reporting and compliance and the result of that testing and not to provide an opinion on the effectiveness of internal control over financial reporting or on compliance and that the report is an integral part of an audit performed in accordance with Government Auditing Standards in considering internal control over financial reporting and compliance. The paragraph will also state that the report is not suitable for any other purpose.
- d. The concept of materiality recognizes that some matters, either individually or in the aggregate, are important for fair presentation of financial statements in conformity with generally accepted accounting principles while other matters are not important. In performing the audit, we are concerned with matters that, either individually or in the aggregate, could be material to the financial statements. Our responsibility is to plan and perform the audit to obtain reasonable assurance that material misstatements, whether caused by errors or fraud, are detected.

Our audit will be performed in accordance with auditing standards generally accepted in the United States of America and *Government Auditing Standards*, *OMB's Uniform Administrative Requirements*, *Cost Principles*, *and Audit Requirements for Federal Awards* (Uniform Guidance)

We will not express an opinion on the effectiveness of internal control over financial reporting or compliance with laws, regulations and provisions of contracts or grant programs. For audits done in accordance with *Government Auditing Standards*, the Uniform Guidance, report will include a paragraph that states that the purpose of the report is solely to describe (a) the scope of testing of internal control over financial reporting and compliance and the result of that testing and not to provide an opinion on the effectiveness of internal control over financial reporting or on compliance, (b) the scope of testing internal control over compliance for major programs and major program compliance and the result of that testing and to provide an opinion on compliance but not to provide an opinion on the effectiveness of internal control over compliance and, (c) that the report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering internal control over financial reporting and compliance and the Uniform Guidance, in considering internal control over compliance and major program compliance. The paragraph will also state that the report is not suitable for any other purpose.

We are very interested in your views regarding certain matters. Those matters are listed here:

- a. We typically will communicate with your top level of management unless you tell us otherwise.
- b. We understand that the governing board has the responsibility to oversee the strategic direction of your organization, as well as the overall accountability of the entity. Management has the responsibility for achieving the objectives of the entity.
- c. We need to know your views about your organization's objectives and strategies, and the related business risks that may result in material misstatements.
- d. We anticipate that the Authority will receive an unmodified opinion on its financial statements.
- e. Which matters do you consider warrant particular attention during the audit, and are there any areas where you request additional procedures to be undertaken?
- f. Have you had any significant communications with regulators or grantor agencies?
- g. Are there other matters that you believe are relevant to the audit of the financial statements?

Also, is there anything that we need to know about the attitudes, awareness and actions of the governing body concerning:

- a. The entity's internal control and its importance in the entity, including how those charged with governance oversee the effectiveness of internal control?
- b. The detection or the possibility of fraud?

We also need to know if you have taken actions in response to developments in financial reporting, laws, accounting standards, governance practices, or other related matters or in response to previous communications with us.

With regard to the timing of our audit, here is some general information. If necessary, we may do preliminary financial audit work during the months of August or September. Our final financial fieldwork is scheduled during the fall to best coincide with your readiness and report deadlines. After fieldwork, we wrap up our financial audit procedures at our office and may issue drafts of our report for your review. Final copies of our report and other communications are issued after approval by your staff.

Keep in mind that while this communication may assist us with planning the scope and timing of the audit, it does not change the auditor's sole responsibility to determine the overall audit strategy and the audit plan, including the nature, timing and extent of procedures necessary to obtain sufficient appropriate audit evidence.

We realize that you may have questions on what this all means or wish to provide other feedback. We welcome the opportunity to hear from you.



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December 16, 2022

Great Lakes Water Authority 735 Randolph Street, 15<sup>th</sup> Floor Detroit, MI 48226

To the Great Lakes Water Authority Audit Committee:

We are presenting, for your consideration, our comments and management recommendations which were identified during our audit of the financial statements of the Great Lakes Water Authority (Authority) for the year ended June 30, 2022.

This letter, by its nature, focuses on improvements and does not comment on the many strong areas of the Authority's systems and procedures. The comments and suggestions are not intended to reflect in any way on the integrity or ability of the personnel of Authority's operations. Additionally, this letter is meant to provide management with information which may be useful when considering operating enhancements to your operation and are provided in the spirit of advisory assistance. The comments in this report are not required as part of our annual audit but are offered only as a process to assist your operations.

#### **Payroll Controls**

Prior Year Communication:

Annually, significant financial processes are reviewed in detail to identify existing controls in place at the Authority. Due to the significance of the transactions which are processed through the Authority's disbursement and payroll transaction cycles, we conduct a full control assessment through sampling. Our sample is a random selection of transactions which were made during the fiscal year. Baker Tilly selected a sample of payroll transactions to review for effective controls including proper authorization and approval of employee wages, proper review and approval of employee payroll either timecards or salary wages and review of payroll prior to release of checks or direct deposit file. Below is a summary of a control deficiency which was noted in our payroll sample.

Control Objective	Finding	Recommendation to Address Finding	Management's Response
All employee timecards should be approved	An employee sampled was paid for 8 hours of time without a supporting approved schedule.	Baker Tilly worked with GLWA management to evaluate the potential impact of and are in agreement the impact is not significant to the Authority's financial statements.  We recommend management work with its software to develop an exception report for any time entered without an approved schedule. The exception report would be reviewed and approved by an appropriate individual.	The Authority will develop an exception report, in alignment with pay policy, and incorporate that into Organizational Development's standard review procedures. Exceptions will be followed up accordingly.

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#### **Payroll Controls**

Current Year Update:

Due to turn over in the Organizational Development Department, a sufficient internal control to mitigate our 2021 finding was not able to be implemented. A memo received from current GLWA Organizational Development Director dated September 26, 2022 stated,

OD is conducting a thorough review of all non-exempt team members to ensure a schedule is in place and if one is not found, a remedy will be to put one in place within 30 days. Going forward, OD will have the schedule for new team members established with the hiring manager prior to the team member starting.

Additionally, OD will conduct an internal quarterly audit to ensure all non-exempt team members have a schedule in place.

We believe GLWA intends to effectively implement sufficient internal controls to mitigate potential misstatement risk throughout fiscal year 2023

## **Information Technology Overview**

The focus for the 2022 Information Technology (IT) review was to continue developing our understanding of the general computer control (GCC) environment at Authority and perform detailed tests as part of our annual audit of the financial statements. This document is intended to summarize the results of our review and provide any additional guidance regarding the IT environment at Authority.

The GCC review utilized the IT Risk Assessment Standards framework to obtain a more detailed understanding of the Authority IT control environment. As part of the GCC review, the following areas related to the IT function were reviewed:

- > New system implementations and significant upgrades
- > Application changes
- > Database changes
- > Server operating system changes
- > Application access
- > Privileged access
- > Segregation of duties between administrative access and individuals operating financial systems
- > Authentication
- > User account management, new and modified access
- > User account terminations
- > User access reviews
- > Backups
- > Interfaces and automated processing

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# **General Computer Control Findings**

Prior Year Communication:

Below lists some of the specific GCC findings that did not warrant a management letter comment but should be considered by the Authority.

Control Objective	IT Finding	Recommendation to Address Finding	Management's Response
Disaster recovery plan	Does not have a formal disaster recovery plan	We recommend the Authority to review the drafted disaster recovery plan and formally adopt a plan.	Significant progress was completed in Spring 2021 on the draft Disaster Recovery Plan related to Application Criticality Tiers using a third party disaster recovery specialist. GLWA is in the process of implementing a new Disaster Recovery as a Service (DRaaS) model which will inform further updates to the plan to be finalized in FY 23.

# **General Computer Control Findings**

Current Year Update:

We encourage GLWA to formally adopt their drafted disaster recovery plan as soon as practicable.

This report is intended solely for the information and use of management and others in the organization and is not intended to be, and should not be, used by anyone other than the specified parties.

We appreciate the courtesy and assistance extended to us by all your personnel during the audit. If you have any questions on our comments, or if we can offer our services in any other way during the year, please do not hesitate to contact us. Thank you for allowing us to serve you.

Sincerely,

BAKER TILLY US, LLP



December 14, 2022

Baker Tilly US, LLP 4807 Innovate Ln PO Box 7398 Madison, WI 53707

Dear Baker Tilly US, LLP:

We are providing this letter in connection with your audit of the financial statements of the Great Lakes Water Authority (Authority) as of June 30, 2022 and for the year then ended for the purpose of expressing opinions as to whether the financial statements present fairly, in all material respects, the financial position of the Authority, each major enterprise fund, and the respective changes in financial position and cash flows, where applicable, in conformity with generally accepted accounting principles (GAAP)in the United States of America. We confirm that we are responsible for the fair presentation of the previously mentioned financial statements in conformity with GAAP. We are also responsible for adopting sound accounting policies, establishing and maintaining internal control over financial reporting, and preventing and detecting fraud.

Certain representations in this letter are described as being limited to matters that are material. Items are considered material, regardless of size, if they involve an omission or misstatement of accounting information that, in the light of surrounding circumstances, makes it probable that the judgment of a reasonable person relying on the information would be changed or influenced by the omission or misstatement. An omission or misstatement that is monetarily small in amount could be considered material as a result of qualitative factors.

We confirm, to the best of our knowledge and belief, the following representations made to you during your audit.

## **Financial Statements**

- 1) We have fulfilled our responsibilities, as set out in the terms of the audit engagement letter.
- 2) The financial statements referred to above are fairly presented in conformity with GAAP and include all properly classified funds and other financial information of the Authority required by GAAP to be included in the financial reporting entity.

- 3) We acknowledge our responsibility for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.
- 4) We acknowledge our responsibility for the design, implementation, and maintenance of internal control to prevent and detect fraud.
- 5) Significant assumptions we used in making accounting estimates, including those measured at fair value, if any, are reasonable.
- 6) All events subsequent to the date of the financial statements and for which GAAP require adjustment or disclosure have been adjusted or disclosed. No other events, including instances of noncompliance, have occurred subsequent to the financial statement date and through the date of this letter that would require adjustment to or disclosure in the aforementioned financial statements or in the schedule of findings and questioned costs.
- 7) All material transactions have been recorded in the accounting records and are reflected in the financial statements and the schedule of expenditures of federal and state awards.
- 8) The effects of all known actual or possible litigation, claims, and assessments whose effects should be considered when preparing the financial statements, have been accounted for and disclosed in accordance with GAAP. There are no unasserted litigation, claims or assessments that our lawyer has advised us are probable of assertion.
- 9) Guarantees, whether written or oral, under which the Authority is contingently liable, if any, have been properly recorded or disclosed.

## **Information Provided**

- 10) We have provided you with:
  - a) Access to all information, of which we are aware, that is relevant to the preparation and fair presentation of the financial statements, such as financial records and related data, documentation, and other matters and all audit or relevant monitoring reports, if any, received from funding sources.
  - b) Additional information that you have requested from us for the purpose of the audit.
  - c) Unrestricted access to persons within the entity from whom you determined it necessary to obtain audit evidence.



- d) Minutes of the meetings of Board of Directors or summaries of actions of recent meetings for which minutes have not yet been prepared.
- 11) We have disclosed to you results of our assessment of the risk that the financial statements may be materially misstated as a result of fraud.
- 12) We have no knowledge of any fraud or suspected fraud that affects the entity and involves:
  - a) Management,
  - b) Employees who have significant roles in internal control, or
  - c) Others where the fraud could have a material effect on the financial statements.
- 13) We have no knowledge of any allegations of fraud or suspected fraud affecting the entity received in communications from employees, former employees, regulators, or others.
- 14) We have no knowledge of known instances of noncompliance or suspected noncompliance with provisions of laws, regulations, contracts, or grant agreements, or abuse, whose effects should be considered when preparing financial statements.
- 15) There are no related parties or related party relationships and transactions, including side agreements, of which we are aware.

#### Other

- 16) There have been no communications from regulatory agencies concerning noncompliance with, or deficiencies in, financial reporting practices.
- 17) We have taken timely and appropriate steps to remedy fraud, noncompliance with provisions of laws, regulations, contracts or grant agreements, or abuse that you have reported to us.
- 18) We have a process to track the status of audit findings and recommendations.
- 19) We have provided our views on reported findings, conclusions, and recommendations, as well as our planned corrective actions, for our report.
- 20) The Authority has no plans or intentions that may materially affect the carrying value or classification of assets, deferred outflows of resources, liabilities, deferred inflows of resources or net position.



21) We are responsible for compliance with federal, state, and local laws, regulations, and provisions of contracts and grant agreements applicable to us, including tax or debt limits, debt contracts, and IRS arbitrage regulations; and we have identified and disclosed to you all federal, state, and local laws, regulations and provisions of contracts and grant agreements that we believe have a direct and material effect on the determination of financial statement amounts or other financial data significant to the audit objectives, including legal and contractual provisions for reporting specific activities in separate funds.

# 22) There are no:

- a) Violations or possible violations of budget ordinances, federal, state, and local laws or regulations (including those pertaining to adopting, approving and amending budgets), provisions of contracts and grant agreements, tax or debt limits, and any related debt covenants whose effects should be considered for disclosure in the financial statements or as a basis for recording a loss contingency, or for reporting on noncompliance, except those already disclosed in the financial statement, if any.
- b) Other liabilities or gain or loss contingencies that are required to be accrued or disclosed by GAAP.
- c) Charges and/or rates being charged to customers other than the charges and/or rates as authorized by the applicable authoritative body.
- d) Violations of restrictions placed on revenues as a result of bond resolution covenants such as revenue distribution or debt service funding.
- 23) The Authority has satisfactory title to all owned assets, and there are no liens or encumbrances on such assets nor has any asset been pledged as collateral.
- 24) The Authority has complied with all aspects of contractual agreements that would have a material effect on the financial statement in the event of noncompliance.
- 25) The financial statements properly classify all funds and activities.
- 26) Components of net position (net investment in capital assets; restricted; and unrestricted) are properly classified and, if applicable, approved.
- 27) The Authority has no derivative financial instruments such as contracts that could be assigned to someone else or net settled, interest rate swaps, collars or caps.
- 28) Provisions for uncollectible receivables, if any, have been properly identified and recorded.



- 29) Interfund, internal, and intra-entity activity and balances have been appropriately classified and reported.
- 30) Deposits and investments are properly classified, valued, and disclosed (including risk disclosures, collateralization agreements, valuation methods, and key inputs, as applicable).
- 31) Provision, when material, has been made to reduce excess or obsolete inventories to their estimated net realizable value.
- 32) Capital assets, including infrastructure and intangible assets, are properly capitalized, reported, and, if applicable, depreciated/amortized. Any known impairments have been recorded and disclosed.
- 33) Tax-exempt bonds issued have retained their tax-exempt status.
- 34) We have appropriately disclosed the Authority's policy regarding whether to first apply restricted or unrestricted resources when an expense is incurred for purposes for which both restricted and unrestricted net position are available and have determined that net position was properly recognized under the policy.
- 35) We acknowledge our responsibility for the required supplementary information (RSI). The RSI is measured and presented within prescribed guidelines and the methods of measurement and presentation have not changed from those used in the prior period. We have disclosed to you any significant assumptions and interpretations underlying the measurement and presentation of the RSI.
- 36) With respect to the supplementary information(SI):
  - a) We acknowledge our responsibility for presenting the SI in accordance with GAAP, and we believe the SI, including its form and content, is fairly presented in accordance with GAAP, as applicable. The methods of measurement and presentation of the SI have not changed from those used in the prior period, and we have disclosed to you any significant assumptions or interpretations underlying the measurement and presentation of the supplementary information.
  - b) If the SI is not presented with the audited financial statements, we will make the audited financial statements readily available to the intended users of the supplementary information no later than the date we issue the supplementary information and the auditor's report thereon.



- 37) We have evaluated and considered all debt reported as defeased in substance and believe all material amounts held in trust that are not expressly prohibited from substitution in monetary assets that are not essentially risk-free are properly disclosed.
- 38) We have implemented Governmental Accounting Standards Board (GASB) Statement No. 92, *Omnibus 2020*, and believe that all required disclosures and accounting considerations have been identified and properly classified in the financial statements in compliance with the Standard.
- 39) We have implemented GASB Statement No. 93, *Replacement of Interbank Offered Rates*, and believe that all required disclosures and accounting considerations have been identified and properly classified in the financial statements in compliance with the Standard.
- 40) We have implemented GASB Statement No. 96, *Subscription-Based Information Technology Arrangements*, and believe that all required disclosures and accounting considerations have been identified and properly classified in the financial statements in compliance with the Standard.
- 41) We have implemented GASB Statement No. 97, Certain Component Unit Criteria, and Accounting and Financial Reporting for Internal Revenue Code Section 457 Deferred Compensation Plans, and believe that all required disclosures and accounting considerations have been identified and properly classified in the financial statements in compliance with the Standard.
- 42) We have implemented GASB Statement No. 99, *Omnibus 2022*, and believe that all required disclosures and accounting considerations have been identified and properly classified in the financial statements in compliance with the Standard.
- 43) We have identified any leases or other contracts that are required to be reported as leases and are in agreement with the key assumptions used in the measurement of any lease related assets, liabilities or deferred inflows of resources.
- 44) We are responsible for the estimation methods and assumptions used in measuring assets and liabilities reported or disclosed at fair value, including information obtained from brokers, pricing services or third parties. Our valuation methodologies have been consistently applied from period to period. The fair value measurements reported or disclosed represent our best estimate of fair value as the measurement date in accordance with the requirements of GASB 72 *Fair Value Measurement*. In addition, our disclosures related to fair value measurements are consistent with the objectives outlined in GASB 72. We have evaluated the fair value information provided to us by brokers, pricing services or other parties that has been used in the financial statements and believe this information to be reliable and consistent with the requirements.



- 45) We have evaluated the existing outstanding debt for potential arbitrage liability. No liability has been recorded as no known liability exists.
- 46) We have evaluated existing contracts and agreements and are responsible for the accounting and financial reporting of any related capital or intangible assets, liabilities, receivables or deferred items in compliance with generally accepted accounting principles.
- 47) We are responsible for compliance with the funding requirements and the flow of funds as outlined in the Master Bond Ordinance.
- 48) We are responsible for the fair presentation of the Authority's net pension liability based upon calculations by the City of Detroit General Employees' Retirement System (GRS) and related amounts. We appropriately allocated the net pension liability based on the assumptions in the lease agreements, pension agreement and the allocation letter signed by the Authority's Chief Executive Officer and the Detroit Water & Sewerage Department (DWSD) Director on January 24, 2017. We have properly disclosed our special funding situation under GASB 68, Accounting and Financial Reporting for Pension Plans. We have reviewed the information provided by GRS for inclusions in the Authority's financial statements.
- 49) The auditing standards define an annual report as "a document, or combination of documents, typically prepared on an annual basis by management or those charged with governance in accordance with law, regulation, or custom, the purpose of which is to provide owners or similar stakeholders with information on the entity's operations and the financial results and financial position as set out in the financial statements." Among other items, an annual report contains, accompanies, or incorporates by reference the financial statements and the auditors' report thereon. The annual comprehensive financial report (ACFR) is an annual report. We have provided you with the final version of the annual report. There are no material inconsistencies between the financial statements and any other information contained within the annual report.
- 50) With respect to federal award programs:
  - a) We are responsible for understanding and complying with and have complied with the requirements of the Single Audit Act Amendments of 1996, *OMB's Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), including requirements relating to preparation of the schedule of expenditures of federal awards (SEFA).



- b) We acknowledge our responsibility for preparing and presenting the SEFA and related disclosures in accordance with the requirements of the Uniform Guidance and we believe the SEFA, including its form and content, is fairly presented in accordance with the Uniform Guidance. The methods of measurement and presentation of the SEFA have not changed from those used in the prior period and we have disclosed to you any significant assumptions and interpretations underlying the measurement and presentation of the SEFA.
- c) If the SEFA is not presented with the audited financial statements, we will make the audited financial statements readily available to the intended users of the SEFA no later than the date we issue the SEFA and the auditors' report thereon.
- d) We have identified and disclosed to you all of our government programs and related activities subject to the Uniform Guidance and included in the SEFA, expenditures made during the audit period for all awards provided by federal agencies in the form of grants, federal cost reimbursement contracts, loans, loan guarantees, property (including donated surplus property), cooperative agreements, interest subsidies, insurance, food commodities, direct appropriations, and other direct assistance.
- e) We are responsible for understanding and complying with, and have complied with the requirements of laws, regulations, and the provisions of contracts and grant agreements related to each of our federal programs and have identified and disclosed to you the requirements of laws, regulations, and the provisions of contracts and grant agreements that are considered to have a direct and material effect on each major federal program.
- f) We are responsible for establishing and maintaining, and have established and maintained, effective internal control over compliance for federal programs that provide reasonable assurance that we are administering our federal awards in compliance with laws, regulations, and the provisions of contracts and grant agreements that could have a material effect on our federal programs. We believe the internal control system is adequate and is functioning as intended. Also, no changes have been made in the internal control over compliance or other factors to the date of this letter that might significantly affect internal control, including any corrective action taken with regard to control deficiencies reported in the schedule of findings and questioned costs.
- g) We have made available to you all contracts and grant agreements (including amendments, if any) and any other correspondence with federal agencies or pass-through entities relevant to the programs and related activities.
- h) We have received no requests from a federal agency to audit one or more specific programs as a major program.



- i) We have complied with the direct and material compliance requirements including when applicable, those set forth in the OMB Compliance Supplement relating to federal awards.
- j) We have disclosed any communications from grantors and pass-through entities concerning possible noncompliance with the direct and material compliance requirements, including communications received from the end of the period covered by the compliance audit to the date of the auditors' report.
- k) Amounts claimed or used for matching were determined in accordance with relevant guidelines in the Uniform Guidance.
- l) We have disclosed to you our interpretation of compliance requirements that may have varying interpretations.
- m)We have made available to you all documentation related to the compliance with the direct and material compliance requirements, including information related to federal program financial reports and claims for advances and reimbursements.
- n) We have disclosed to you the nature of any subsequent events that provide additional evidence about conditions that existed at the end of the reporting period affecting noncompliance during the reporting period.
- o) We are not aware of any instances of noncompliance with direct and material compliance requirements that occurred subsequent to the period covered by the auditors' report.
- p) No changes have been made in internal control over compliance or other factors that might significantly affect internal control, subsequent to the date as of which compliance was audited.
- q) Federal program financial reports and claims for advances and reimbursements are supported by the books and records from which the financial statements have been prepared.
- r) The copies of federal program financial reports provided you are true copies of the reports submitted, or electronically transmitted, to the respective federal agency or pass-through entity, as applicable.
- s) We have monitored subrecipients to determine that they have expended pass-through assistance in accordance with applicable laws and regulations and have met the requirements of the Uniform Guidance.



- t) We have taken appropriate action, including issuing management decisions, on a timely basis after receipt of subrecipients' auditors' reports that identified noncompliance with laws, regulations, or the provisions of contracts or grant agreements to ensure that subrecipients have taken the appropriate and timely corrective action on findings.
- u) We have considered the results of subrecipient audits and made any necessary adjustments to our books and records.
- v) We have charged costs to federal awards in accordance with applicable cost principles.
- w) We are responsible for and have accurately prepared the summary schedule of prior audit findings to include all findings required to be included by the Uniform Guidance *and* we have provided you with all information on the status of the follow-up on prior audit findings by federal awarding agencies and pass-through entities, including all management decisions.
- x) We are responsible for and have ensured the reporting package does not contain protected personally identifiable information.
- y) We are responsible for and have accurately prepared the auditee section of the Data Collection Form as required by the Uniform Guidance.

Sincerely,

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

Nicolette N. Bateson, CPA, Chief Financial Officer/ Treasurer

