



**Freud Pump Station Improvements**  
Photo Submitted by Paul Ransom of Wastewater Operating Services

# GLWA FY 2026 - 2030 CAPITAL IMPROVEMENT PLAN



## PROPOSED CAPITAL IMPROVEMENT PLAN FY 2026-2030



Updated January 10, 2025



**Northeast Water Treatment Plant Filter Replacement**  
Photo Submitted by Erich Klun of Water Operating Services

## GLWA Board of Directors Meeting January 22, 2025

**Jody Caldwell, PE**  
Chief Planning Officer

**Dima El-Gamal, PhD, PE, LEED @ AP.**  
Capital Improvement Planning Director

# AGENDA



## 💧 KEY TAKEAWAYS

## 💧 FY 2026 - 2030 CIP ROADMAP

## 💧 FY 2026 - 2030 CIP HIGHLIGHTS

- 💧 CIP AT A Glance
- 💧 Capital Spend Ratio-Financial Plan
- 💧 Water and Wastewater Summaries

## 💧 CIP Public Dashboard

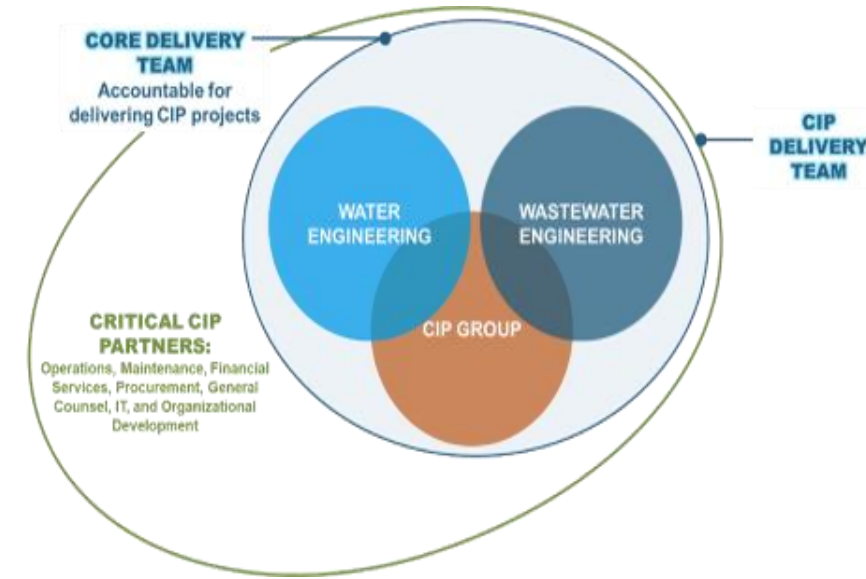
## 💧 RECAP AND QUESTIONS

AGENDA

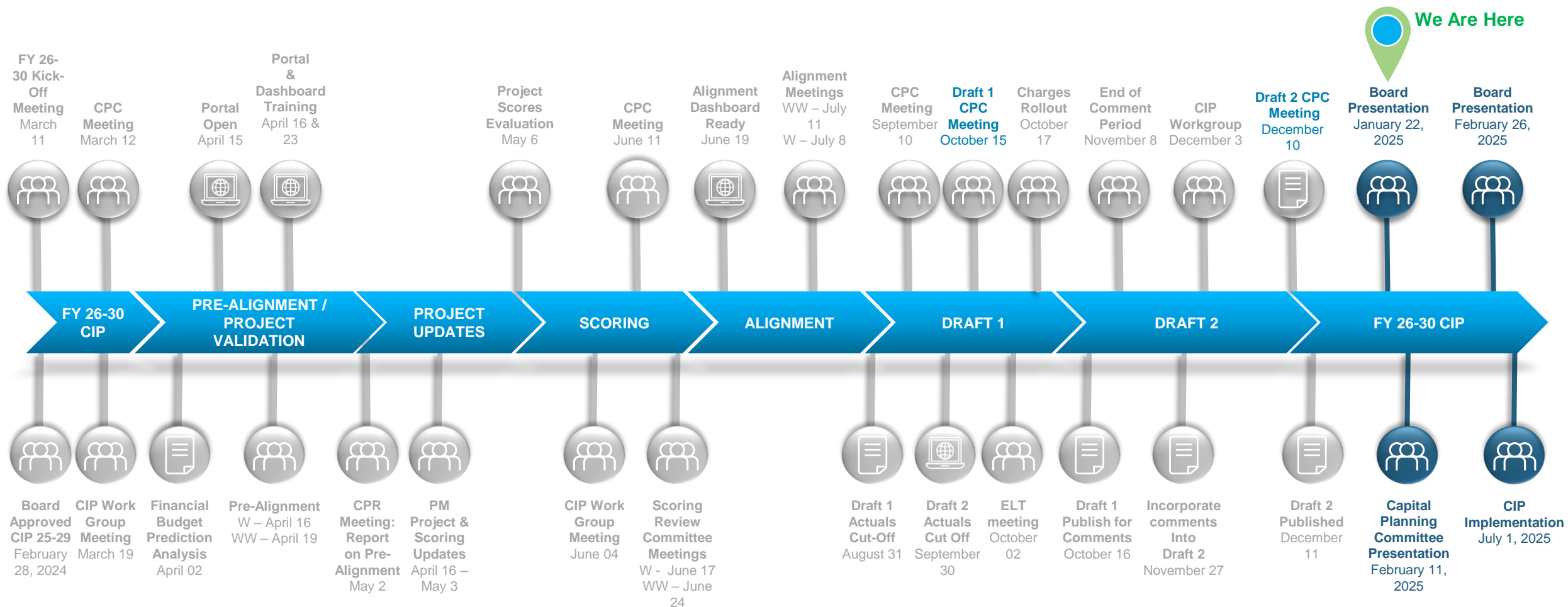


# KEY TAKEAWAYS

- ◆ Five-year document with a 10-year outlook
- ◆ Opportunities for Stakeholders to provide input during development
- ◆ Presented to Capital Planning Committee on Dec 10, 2024
- ◆ Needed projects from all areas of the organization to promote redundancy, resiliency, public health and safety
- ◆ Conformance with recommendations from planning documents and meets regulatory and operational needs
- ◆ FY 2026-2030 CIP is in alignment with the GLWA's 10-Year Financial Plan
  - ◆ Reflects forecasts of the System's overall needs
  - ◆ A Capital Spend Ratio (CSR) is proposed to mitigate the impacts of potential project complexities and resource limitations (Vendors and GLWA)



# FY 2026-2030 ROADMAP- HOW WE GOT HERE

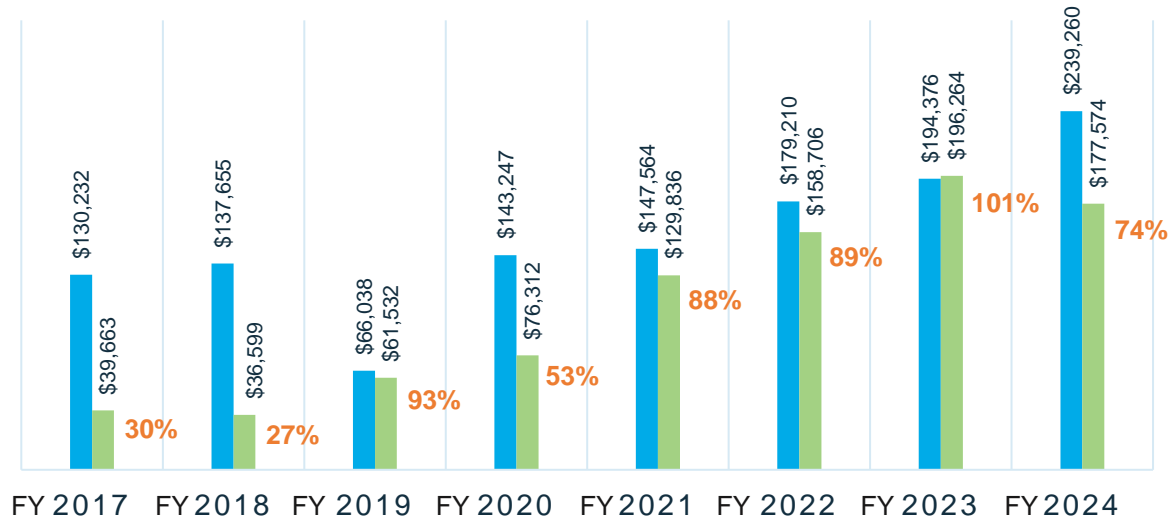


**CPC** – Capital Planning Committee | **CIP** – Capital Improvement Plan  
**CPR** – Capital Program Review | **ELT** – Executive Leadership Team | **PM** – Project Manager

# CIP DELIVERY: PAST PERFORMANCE HIGHLIGHTS

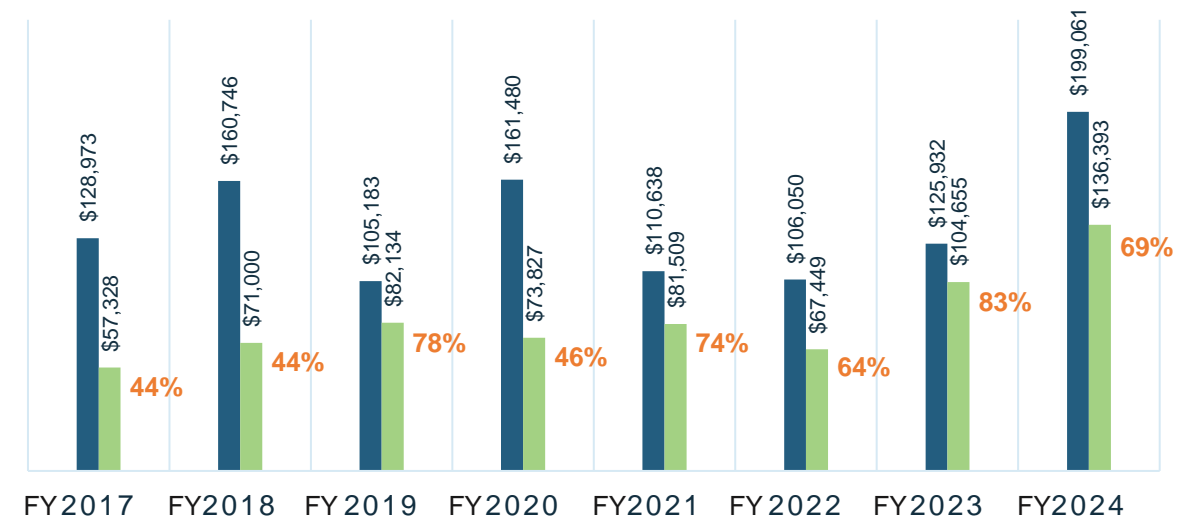
## WATER

■ Approved Plan ■ Actual Spend



## WASTEWATER

■ Approved Plan ■ Actual Spend



(Figures are shown in \$1,000's)

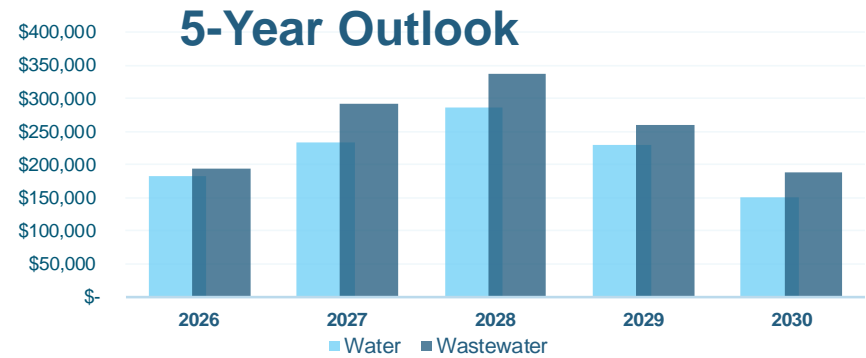
# FY 2026-2030 CIP HIGHLIGHTS



CIP Delivery Team



# FY 2026 - 2030 DISCUSSION DRAFT 2 - CIP AT A GLANCE

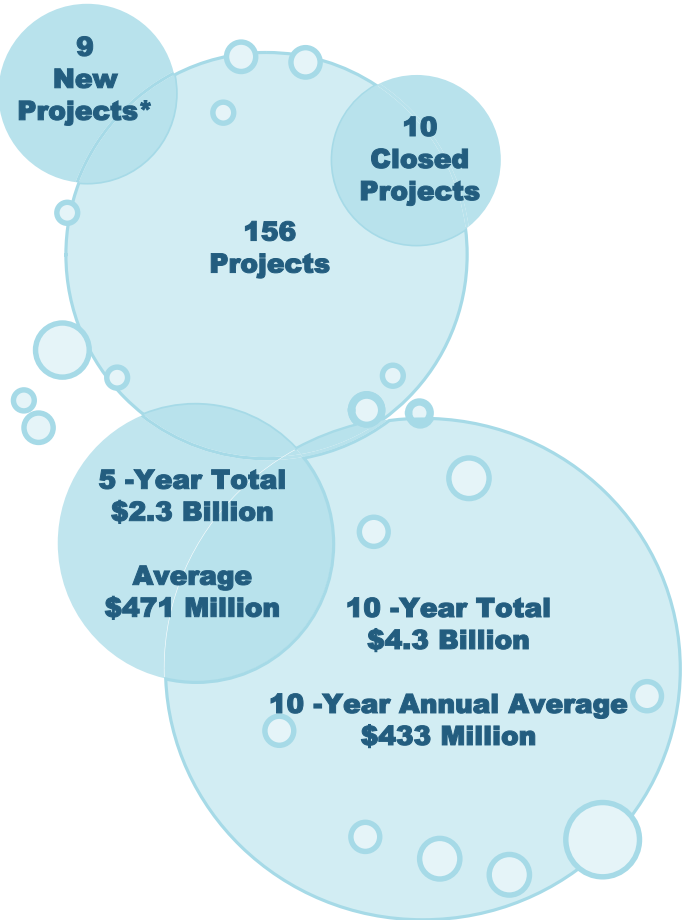


Financial figures in \$1,000s and rounded

WATER	
5-Year Total	\$1,083,229
5-Year Average	\$216,646
10-Year Total	\$2,216,920
10-Year Average	\$221,692

WASTEWATER	
5-Year Total	\$1,271,603
5-Year Average	\$254,321
10-Year Total	\$2,112,834
10-Year Average	\$211,283

\* Based on Oct 31, 2024, actuals and PM cost and schedule updates as of Nov 15, 2024



\*5 NEW PROJECTS FROM PROGRAMS



# CAPITAL SPEND RATIO – FINANCIAL PLAN

- GLWA Board Policy adopted November 28, 2018, “Capital Program Spend Rate Assumption Policy”
  - Annually, a projected spend rate assumption for the financial plan related to the proposed capital improvement plan will be established based upon pertinent factors and data available at that time. Such pertinent factors and data will include the mix of projects and phases in the proposed CIP, interdependency risk, criticality, and other measures provided by the GLWA team members that develop and manage the CIP projects. That spend rate assumption will be presented to the Audit Committee no later than December 31st each year after the GLWA Board, Capital Improvement Planning Committee, and member partners have had the opportunity to review the draft capital improvement plan.
- Spend rate assumptions in the current financial plan (as of January 6, 2025) vary from year to year. Over the course of the ten year plan the lowest is at 80% and the highest is 100%.

	CSR by Fiscal Year									
	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Water	100%	100%	100%	95%	95%	95%	95%	100%	100%	100%
Wastewater	90%	80%	84%	96%	100%	100%	100%	100%	95%	87%

- Forecasted CIP expenditures in the ten-year plan are rounded up to the nearest \$5 million to recognize the dynamic nature of the CIP.

	CIP Financing by Fiscal Year (millions)									
	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Water	\$ 185	\$ 235	\$ 290	\$ 220	\$ 145	\$ 155	\$ 190	\$ 275	\$ 265	\$ 240
Wastewater	\$ 175	\$ 235	\$ 285	\$ 255	\$ 190	\$ 160	\$ 140	\$ 140	\$ 165	\$ 210

# WATER FY 2026 - 2030 CIP SUMMARY

CIP Document	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	5-Year Total
<b>Draft #2 Water CIP FY 26-30</b>	\$179,407	\$183,064	\$233,120	\$285,942	\$230,461	\$150,642	\$1,083,229

	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	5-Year Avg
<b>Proposed CSR %</b>	100%	100%	100%	100%	95%	95%	98%

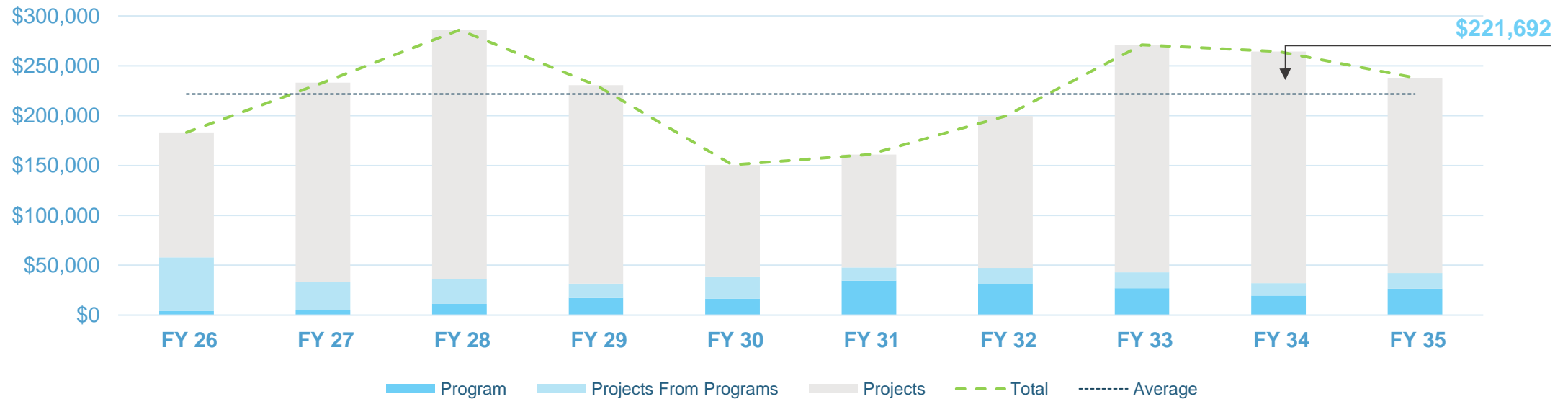
Financial Plan	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	5-Year Total
<b>Approved Water CIP FY 2025-2029</b>	\$207,333	\$209,752	\$227,823	\$236,331	\$190,550	\$202,288	\$1,071,789
<b>Water CIP FY 2026-2030 with CSR</b>	\$179,407	\$183,064	\$233,120	\$285,942	\$218,938	\$143,110	\$1,064,174
<b>Difference with CSR</b>	(\$27,926)	(\$26,688)	\$5,297	\$49,611	\$28,388	(\$59,178)	(\$7,615)
<b>Difference with CSR %</b>	-13.47%	-12.72%	2.33%	20.99%	14.90%	-29.25%	-0.71%

(Figures are shown in \$1,000's)

# WATER FY 2026 - 2035 10-YEAR CIP OUTLOOK

	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35
Program	\$2,046	\$4,346	\$5,308	\$11,263	\$17,346	\$16,677	\$34,602	\$31,314	\$26,883	\$19,608	\$26,562
Projects	\$140,297	\$125,226	\$199,880	\$249,803	\$198,824	\$111,962	\$113,280	\$152,166	\$228,158	\$232,163	\$195,855
Projects From Programs	\$37,064	\$53,492	\$27,932	\$24,876	\$14,290	\$22,003	\$13,075	\$16,090	\$15,916	\$12,425	\$15,594
<b>Total</b>	<b>\$179,407</b>	<b>\$183,064</b>	<b>\$233,120</b>	<b>\$285,942</b>	<b>\$230,461</b>	<b>\$150,642</b>	<b>\$160,957</b>	<b>\$199,570</b>	<b>\$270,957</b>	<b>\$264,197</b>	<b>\$238,011</b>

## 10-Year Water CIP Outlook



Financial figures in \$1,000s and rounded

# WASTEWATER FY 2026-2030 CIP SUMMARY

CIP Document	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	5-Year Total
<b>Draft #2 Wastewater CIP FY 26-30</b>	\$163,276	\$193,221	\$291,841	\$337,800	\$261,115	\$187,625	\$1,271,603

	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	5-Year Avg
<b>Proposed CSR %</b>	100%	90%	80%	84%	96%	100%	90%

Financial Plan	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	5-Year Total
<b>Approved Wastewater CIP FY 2025-2029</b>	\$169,189	\$212,693	\$216,231	\$201,995	\$182,417	\$180,433	\$982,525
<b>Wastewater CIP FY 2026-2030 with CSR</b>	\$163,276	\$173,899	\$233,473	\$283,752	\$250,671	\$187,625	\$1,129,420
<b>Difference with CSR</b>	(\$5,913)	(\$38,794)	\$17,242	\$81,757	\$68,254	\$7,192	\$146,895
<b>Difference with CSR %</b>	-3.49%	-18.24%	7.97%	40.47%	37.42%	3.99%	14.95%

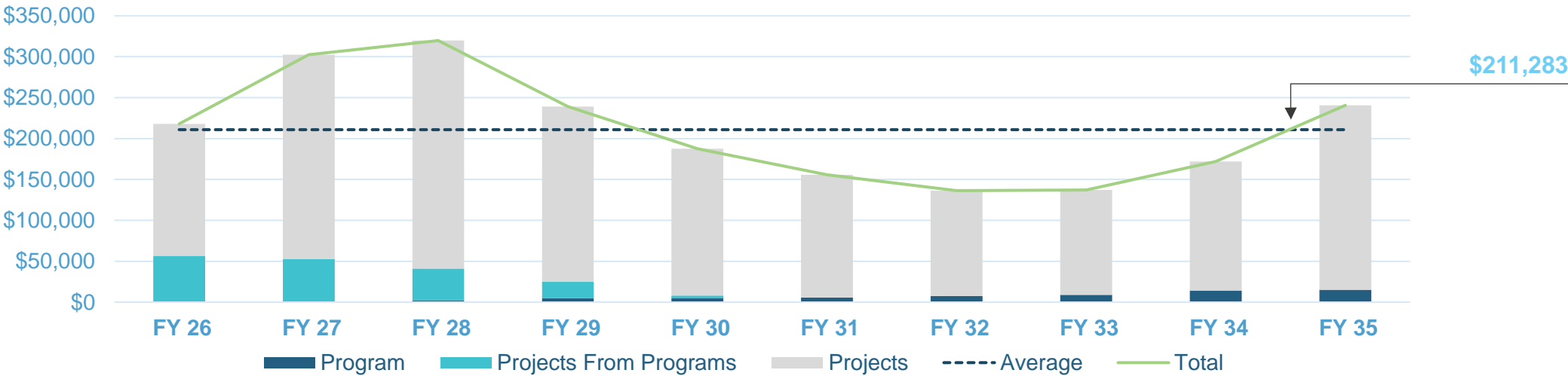
(Figures are shown in \$1,000's)

# WASTEWATER FY2026-2035 10-YEAR CIP OUTLOOK



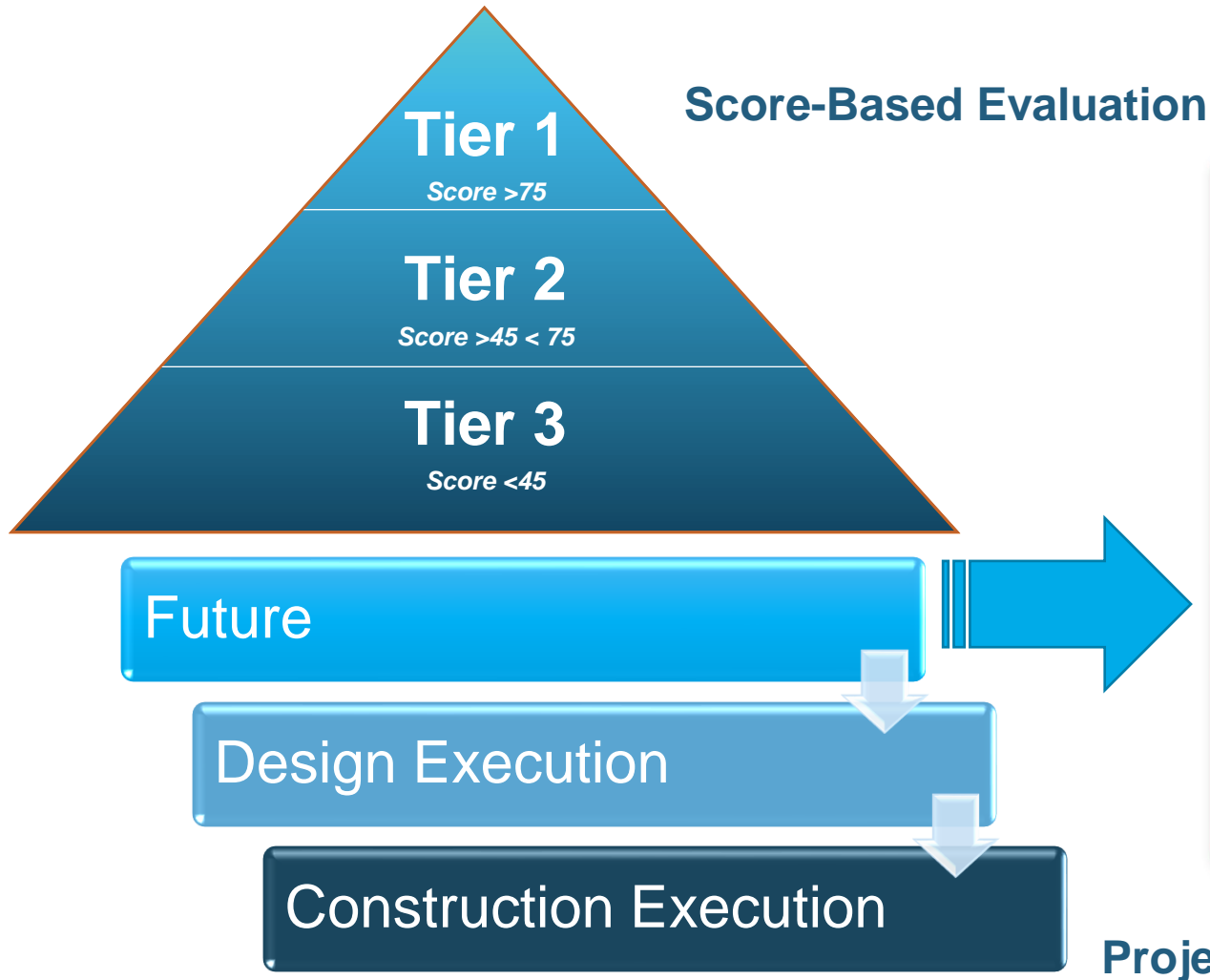
	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35
Program	\$51	\$68	\$183	\$2,236	\$4,707	\$5,078	\$5,578	\$7,295	\$8,917	\$14,194	\$14,994
Projects	\$91,854	\$139,665	\$244,525	\$287,679	\$236,379	\$179,478	\$149,933	\$128,988	\$128,060	\$157,730	\$225,542
Projects From Programs	\$71,364	\$53,488	\$47,134	\$47,885	\$20,030	\$3,069	\$0	\$0	\$0	\$0	\$0
Total	\$163,269	\$193,221	\$291,841	\$337,800	\$261,115	\$187,625	\$155,511	\$136,283	\$136,978	\$171,924	\$240,536

10-Year Wastewater CIP Outlook



Financial figures in \$1,000s and rounded

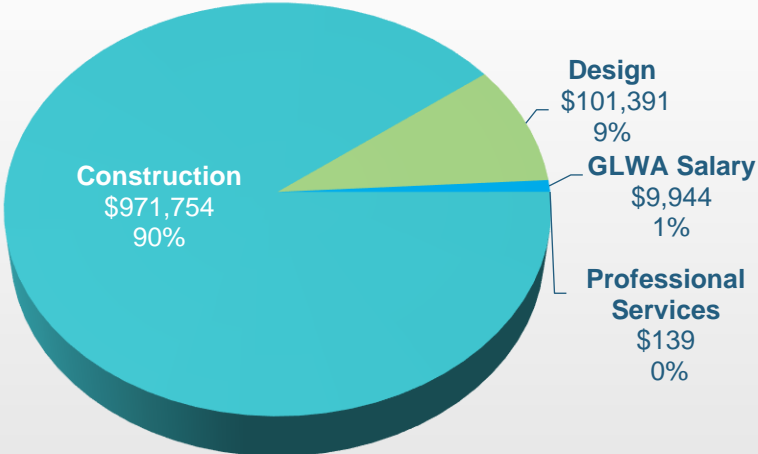
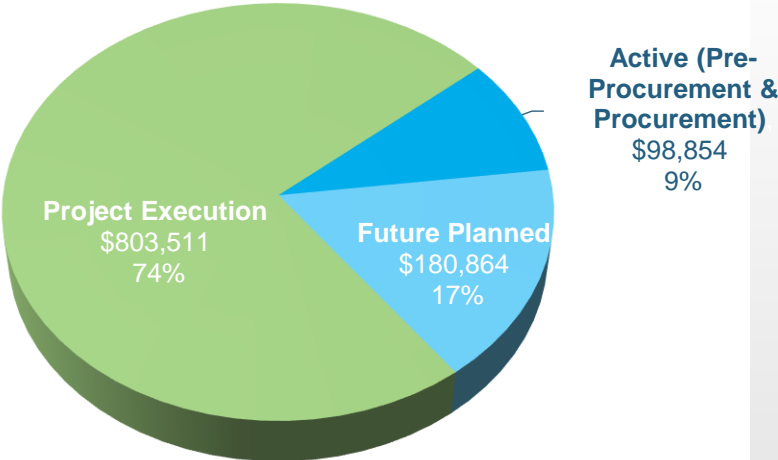
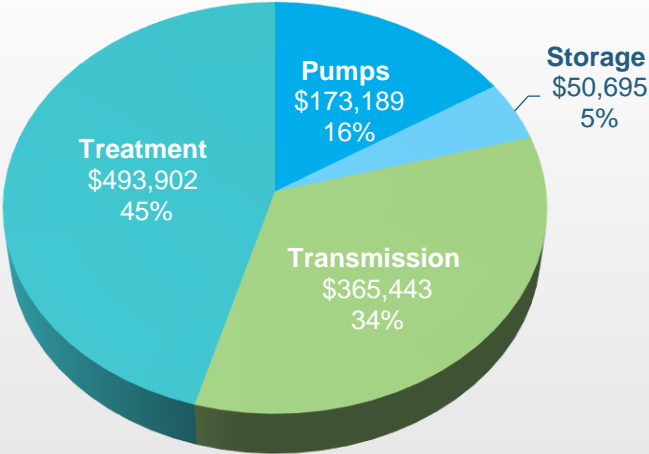
# FY 2026 - 2030 CIP PRIORITIZATION



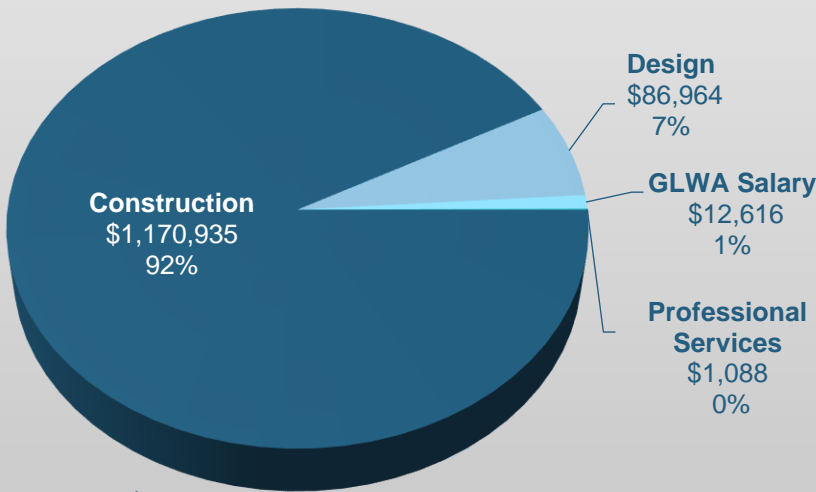
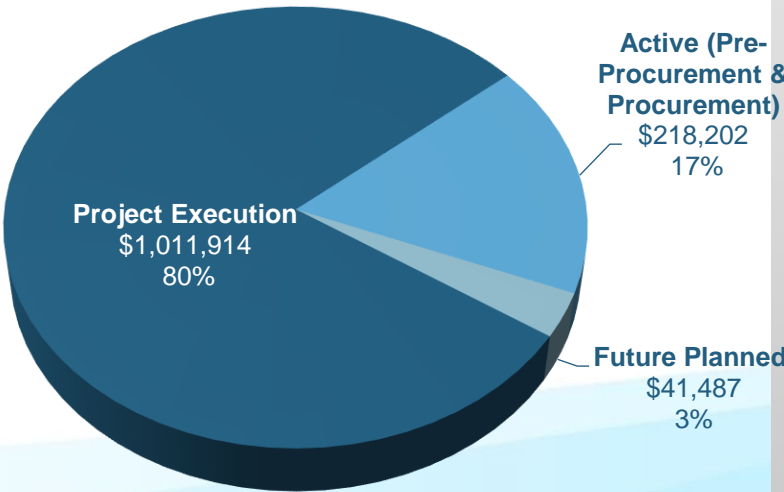
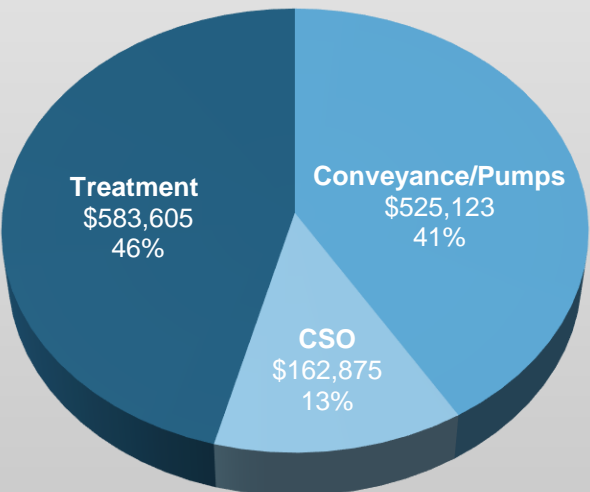
- Holistic Decision Factors
  - Predecessor Projects
  - Delivery Flexibility
  - Funding Source
  - Financial Plan
  - Proactive Planning
  - Constructability
  - Operational Considerations
  - Efficient Resource Allocation
  - Integrated Asset Management

# FY 2026-2030 CIP STATISTICS AND RECAP

## WATER



## WASTEWATER



Financial figures in \$1,000s and rounded

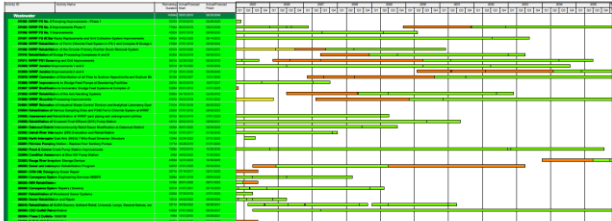
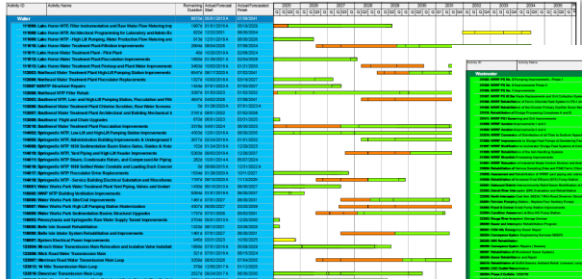
# CIP PUBLIC DASHBOARD



CIP Delivery Team

# FY 2026 - 2030 CIP DOCUMENT

- 💧 CIP at a glance
- 💧 Project summaries
- 💧 Water and Wastewater BCEs
- 💧 Summary tables per various categories
- 💧 GIS Maps
- 💧 Integrated master schedule
- 💧 Added project photos to BCEs
- 💧 One Pager truncated text clarifications




**GLWA**  
Great Lakes Water Authority

**Project Title:** Springwells WTP - Service Building Electrical Substation and Miscellaneous Improvements

**Project Status:** Future Planned - Within Five Year Plan  
**Class Lvl 1:** Water  
**Class Lvl 2:** Treatment Plants and Facilities  
**Class Lvl 3:** Springwells  
**Lookup Location:** Water Treatment Plants  
☐ **Project New to CIP:**

☐ **Innovation**  
☐ **WW Master Plan**  
☐ **Water Master Plan Right Sizing**  
☐ **Redundancy**  
☐ **Linear Assets Outside of Facilities**  
☐ **Predecessor Project(s)**



Service Building Electrical Substation

**Project Engineer/Manager:** Justin Kietur  
**Director:** Tim Kuhns

**Project Score**  
**62.7**

**Problem Statement:**  
The electrical substation located inside the Service Building provides electrical service to the entire service building including the filter wash water pumping units. The existing electrical substation has experienced corrosion to its interior components and electrical cables. As a result the substation does not automatically switch-over during power trips and requires manual switch-over. This substation provides power to the filter wash water pumps and if there are power disruptions associate...[See BCE Report for more information...](#)

**Scope of Work/Project Alternatives:**  
Project will be delivered using a progressive design-build project delivery. The scope of improvements will generally include:  
1. Replacement of the electrical substation in the 1958 Service Building  
2. Connection of replacement electrical substation to Ovation for status monitoring  
3. Replacement of electrical panel in 1930 plant and new conduit and cable runs to the associated equipment  
4. Rehab of masonry on exterior of phosphoric acid fill station  
5. Insulation of piping and pipe chase...[See BCE Report for more information...](#)

**Other Important Info:**  
None

**Project Title:** Springwells WTP - Service Building Electrical Substation and Miscellaneous Improvements

**Current Expenses (All figures are in \$1,000's)**  
\*Total Costs include costs outside of the 10 year planning window  
\*Design & Construction costs are inclusive of salaries where salaries are not defined

Activity Name	Total Costs	Actual Costs	Prior FYs	FY25	FY26	FY27	FY28	FY29	FY30	\$ Year Total	FY31-35
GLWA Salaries	\$178	\$0	\$0	\$0	\$0	\$0	\$0	\$75	\$75	\$28	\$178
Professional Services	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Design/Engineering	\$2,163	\$0	\$0	\$0	\$0	\$0	\$0	\$58	\$1,717	\$388	\$2,163
Totals	\$2,340	\$0	\$0	\$0	\$0	\$0	\$0	\$133	\$1,791	\$416	\$2,341

# WHAT'S NEW - CIP PUBLIC DASHBOARD

- First CIP public facing dashboard
- Reflects current CIP document
- Applies filters to derive at data



Careers Financials Assistance Contact Login

ABOUT OUR SYSTEM MEMBERS VENDORS INVESTOR RELATIO

CAPITAL IMPROVEMENT VIEWER

CAPITAL IMPROVEMENT VIEWER

CIP PUBLIC DASHBOARD

CLICK HERE

CAPITAL IMPROVEMENT PLAN - DISCUSSION DRAFT #1 2026-2030


Download the Discussion Draft #1 Capital Improvement Plan (CIP) 2026 - 2030 for a look at GLWA's plans for maintaining and improving the regional system.

CIP Report FY26-30 - Discussion Draft 1

CIP FY26-30 - Appendix A

CIP FY26-30 - Appendix B

CIP FY26-30 - Appendix C



GLWA  
Great Lakes Water Authority

Total Cost \$0 \$908,270

Project Start Fiscal Year 2025 2032

Reset Filters

Project Status All

Activity Category All

CIP Budget All

Project Location All

Key Areas All

Facility All

Links to Appendix A/B : Business Case Evaluation (BCE)

Link	CIP #	CIP Title
	111001	Lake Huron WTP, Low-Lift, High Lift and Filter Backwash Pumping System Ir
	111010	Lake Huron WTP Filtration Improvement
	111012	LHWTP-Flocculation Improvements
	111013	Lake Huron Water Treatment Plant Fireloop and Plant Water Improvements
	112003	Northeast Water Treatment Plant High-Lift Pumping Station Improvements
	112007	NEWTP-Structural Repairs
	112008	Northeast Water Treatment Plant Filter Replacement
	113003	Southwest Water Treatment Plant Low- and High lift Pumping station Impro
	113010	Southwest Water Treatment Plant Flocculation Improvements

CIP Budget

CIP: CIP Name	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31
111001 - Lake Huron WTP, Low-Lift, High Lift and Filter Backwash Pumping System Improvements	\$0	\$11,741	\$16,224	\$25,559	\$29,612	\$26,694	\$18,995
111010 - Lake Huron WTP Filtration Improvement	\$0	\$0	\$0	\$1,196	\$1,196	\$1,164	\$11,413
111012 - LHWTP-Flocculation Improvements	\$0	\$3,207	\$8,647	\$11,608	\$10,486	\$7,066	\$0
111013 - Lake Huron Water Treatment Plant Fireloop and Plant Water Improvements	\$0	\$0	\$0	\$0	\$0	\$0	\$707

CIP Schedule & Gantt Chart

Group Expend

Months Years

Task	Start	End
111001 - LAKE HURON WTP, LOW-LIFT, HIGH LIFT A...	07/15/25	08/01/31
111010 - LAKE HURON WTP FILTRATION IMPROVE...	07/02/27	07/06/34
111012 - LHWTP-FLOCCULATION IMPROVEMENTS	01/01/26	06/30/30
111013 - LAKE HURON WATER TREATMENT PLANT...	07/01/30	06/30/34
112003 - NORTHEAST WATER TREATMENT PLANT ...	07/01/30	06/30/39

CIP - GLWA

Microsoft Power BI (powerbigov.us)

# RECAP & NEXT STEPS

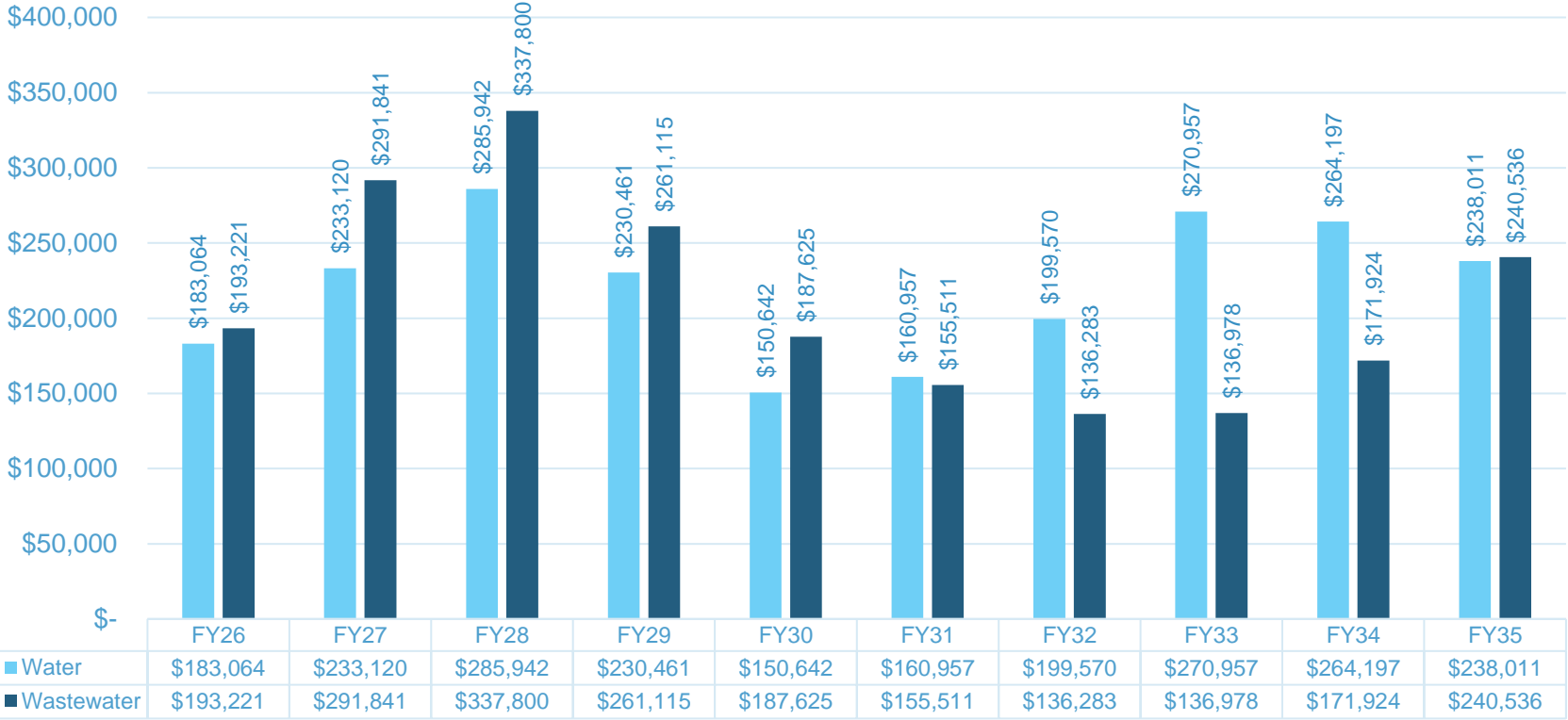


CIP Delivery Team

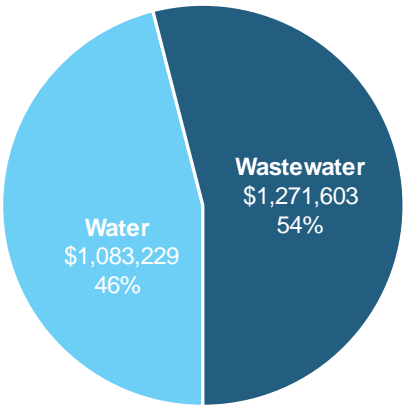
# WATER & WASTEWATER CIP FY 2026 - 2035

## (10 YEAR PROJECTIONS)

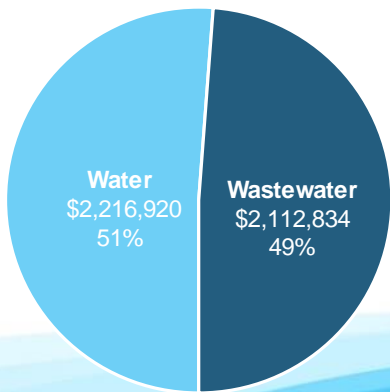
10 Year CIP



CIP FY 26-30 (5 Year) Business Unit



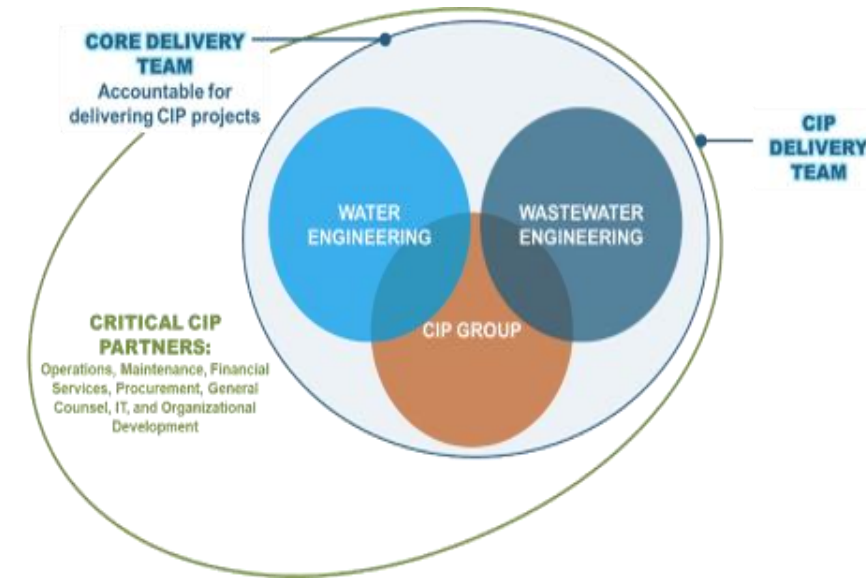
CIP FY 26-35 (10 Year) Business Unit



Financial figures in \$1,000s

# KEY TAKEAWAYS

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# QUESTIONS & THANK YOU



CIP Delivery Team