

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



CIP Delivery Team

CAPITAL IMPROVEMENT PLAN FY 2026 - 2030 DISCUSSION DRAFT 2



CAPITAL IMPROVEMENT PLAN 2026-2030

Updated December 3, 2024
Discussion- Draft 2



Capital Planning Committee Meeting December 10, 2024

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

Jody Caldwell, PE
Chief Planning Officer



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

AGENDA

AGENDA



- ◆ CIP DISCUSSION DRAFT 1 FEEDBACK
- ◆ MAJOR CIP CHANGES SINCE DISCUSSION DRAFT 1
- ◆ CIP PUBLIC DASHBOARD
- ◆ RECAP AND NEXT STEPS

KEY TAKEAWAYS

💧 Discussion Draft # 1

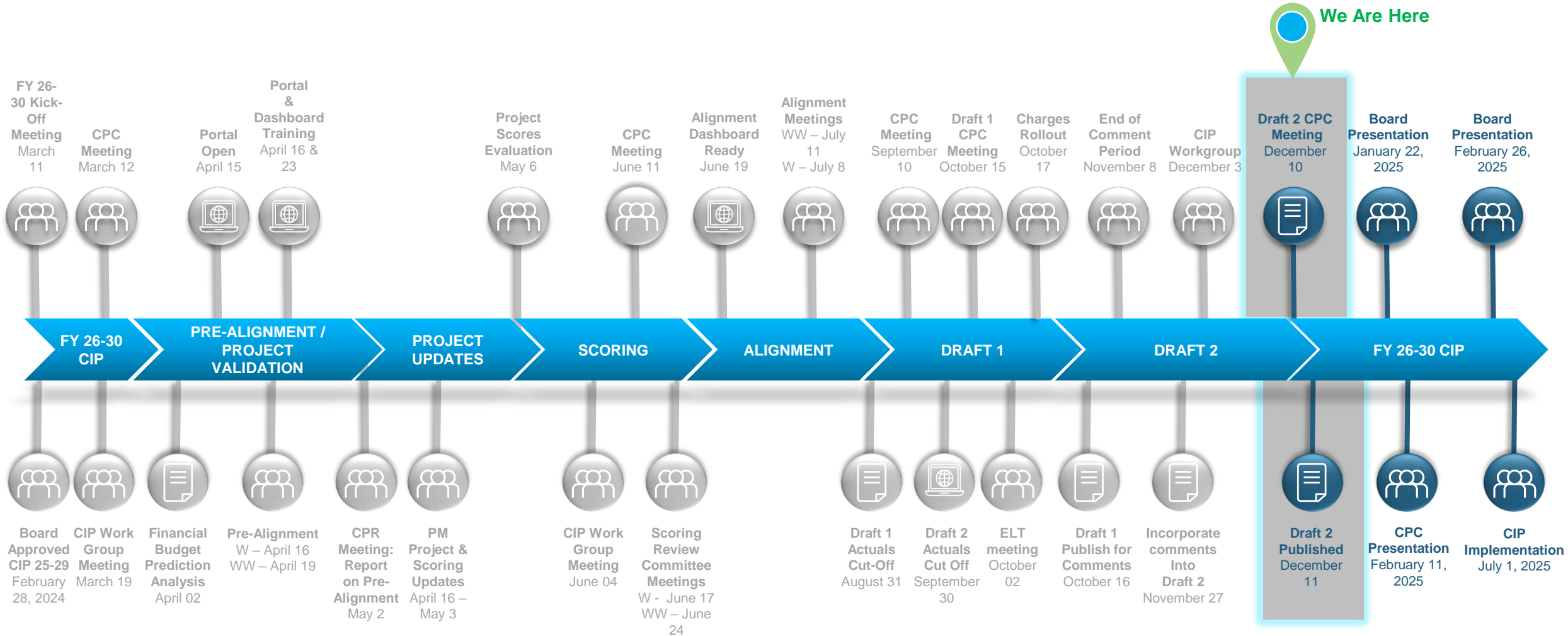
- 💧 Presented to Capital Planning Committee (CPC) on October 15, 2024
- 💧 Public comment period on Draft 1 from Oct 16 - Nov 8, 2024 – No comments received.

💧 Discussion Draft #2

- 💧 Published December 11, 2024
- 💧 Reflects FY 2024 actuals as of September 30, 2024, and project manager updates as of November 15, 2024
- 💧 Wastewater and Water Systems:
 - 💧 Reflects forecast of the System's overall needs (aligned with GLWA's 10-year financial plan)
 - 💧 A Capital Spend Ratio (CSR) is proposed to mitigate the impacts of potential project complexities and resource limitations (Vendors and GLWA)

💧 Ready to move to the next approval stage

FY 26-30 ROADMAP- HOW WE GOT HERE

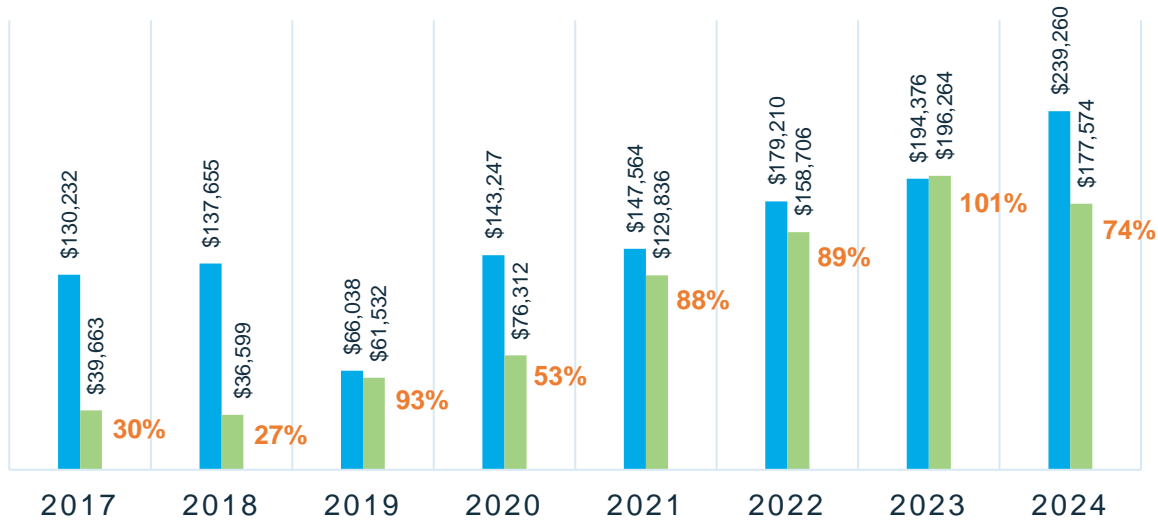


CIP DELIVERY: PAST PERFORMANCE HIGHLIGHTS



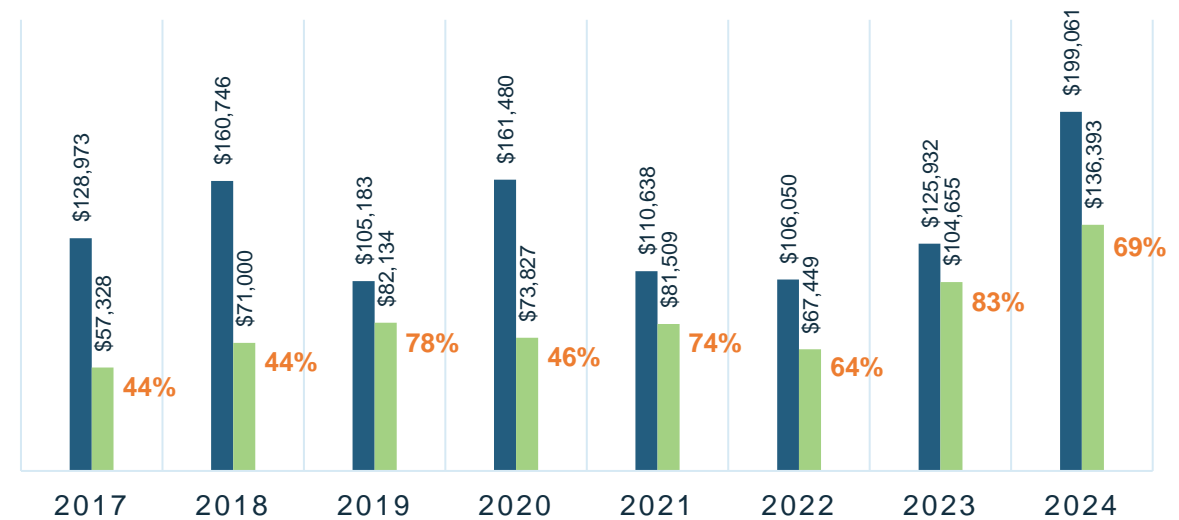
WATER

■ Approved Plan ■ Actual Spend



WASTEWATER

■ Approved Plan ■ Actual Spend



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



FY 2026 - 2030 DISCUSSION DRAFT #2 FEEDBACK ON DISCUSSION DRAFT #1



CIP Delivery Team

FEEDBACK SUMMARY ON DISCUSSION DRAFT #1

- 💧 Document: FY 2026 - 2030 CIP Discussion Draft #1
- 💧 FY 2026 - 2030 CIP Discussion Draft #1 Released October 16, 2024
- 💧 Public Comments Due November 8, 2024
- 💧 Meetings with Directors on November 4th and 18th
- 💧 Overall positive feedback FY 26-30 CIP Discussion Draft 1
- 💧 No comments received during the comment period



FY 2026 - 2030 DISCUSSION DRAFT #2 CHANGES SINCE DISCUSSION DRAFT #1



FY 2026 - 2030 CIP DISCUSSION DRAFT 2 MODIFICATIONS



💧 New in Draft #2

💧 Realtime updates:

- 💧 Incorporated actuals as of September 30, 2024
- 💧 Project cost and schedule updates as of November 15, 2024

💧 New emergency project:

- 💧 CIP# 260624 * - CSO Baby Creek Chemical Storage Tanks Replacement

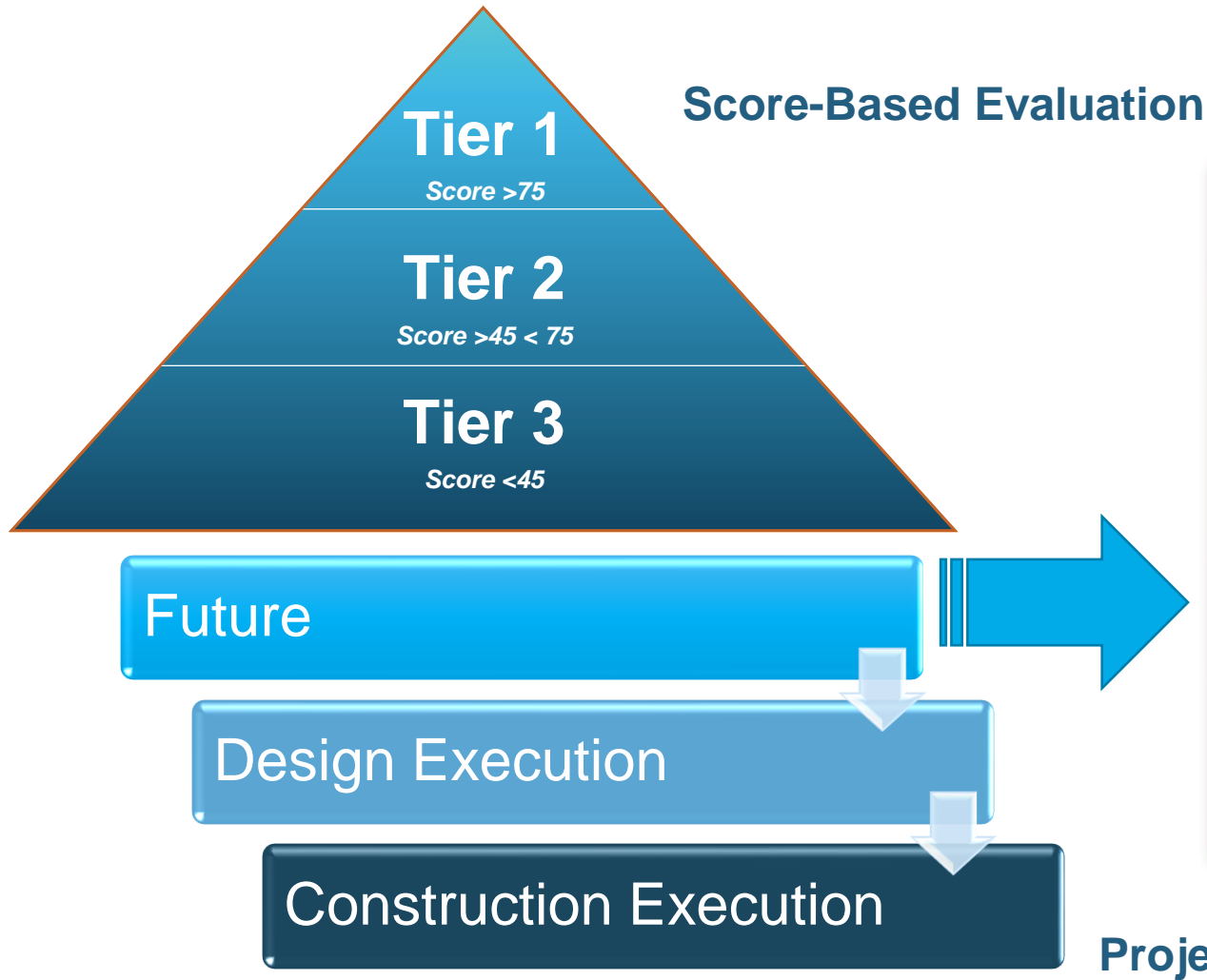
💧 New document cover

💧 Acknowledgment pages

💧 Miscellaneous quality review updates

* *To be scored by the scoring Committee next year*

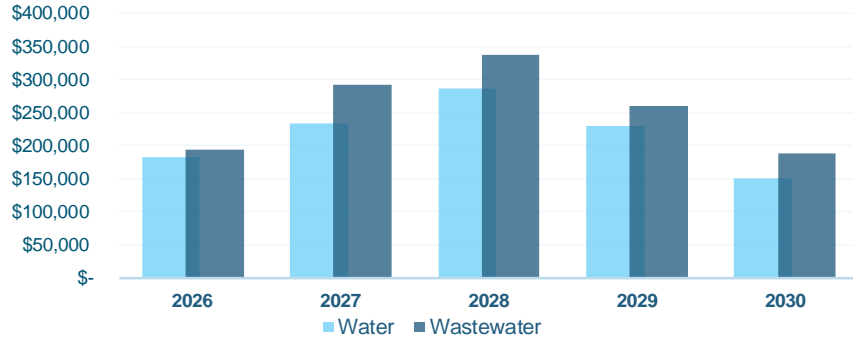
FY 2026 - 2030 CIP PRIORITIZATION



- 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 DISCUSSION DRAFT 2 - CIP AT A GLANCE

5-Year Outlook

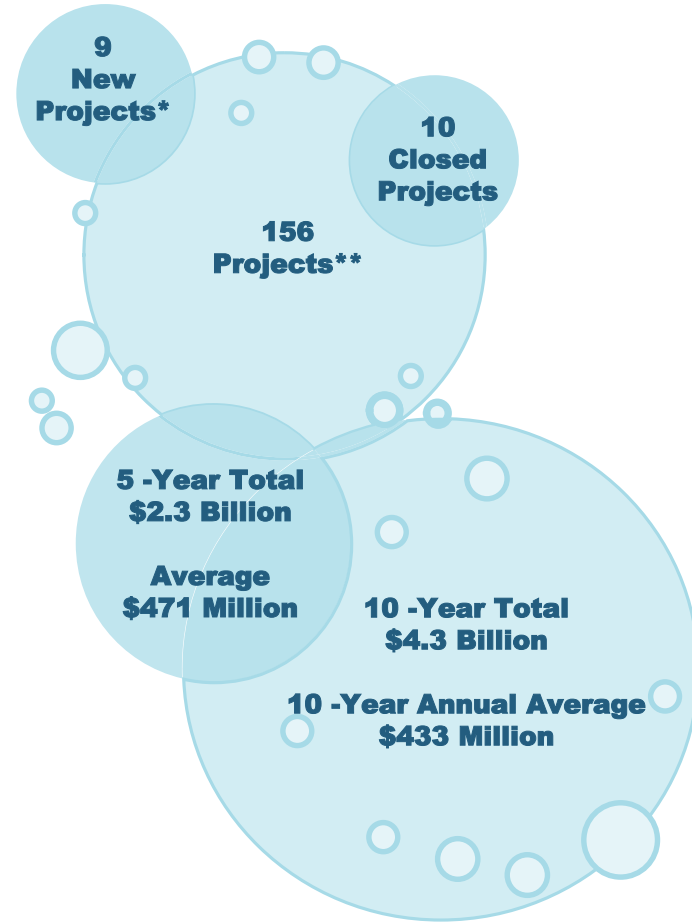


Financial figures in \$1,000s and rounded

Updated from Draft 1*

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



*5 NEW PROJECTS FROM PROGRAMS

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

WATER FY 2026 - 2030 CIP SUMMARY



CIP Document	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	5-Year Total
Draft #2 Water CIP FY 26-30	\$179,407	\$183,064	\$233,120	\$285,942	\$230,461	\$150,642	\$1,083,229
Draft #1 Water CIP FY 26-30		\$181,116	\$236,223	\$267,226	\$212,522	\$161,956	\$1,059,043
Difference (\$)		\$1,948	-\$3,103	\$18,715	\$17,939	-\$11,314	\$24,186
Difference (%)		1.08%	-1.31%	7.00%	8.44%	-6.99%	2.28%

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

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

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

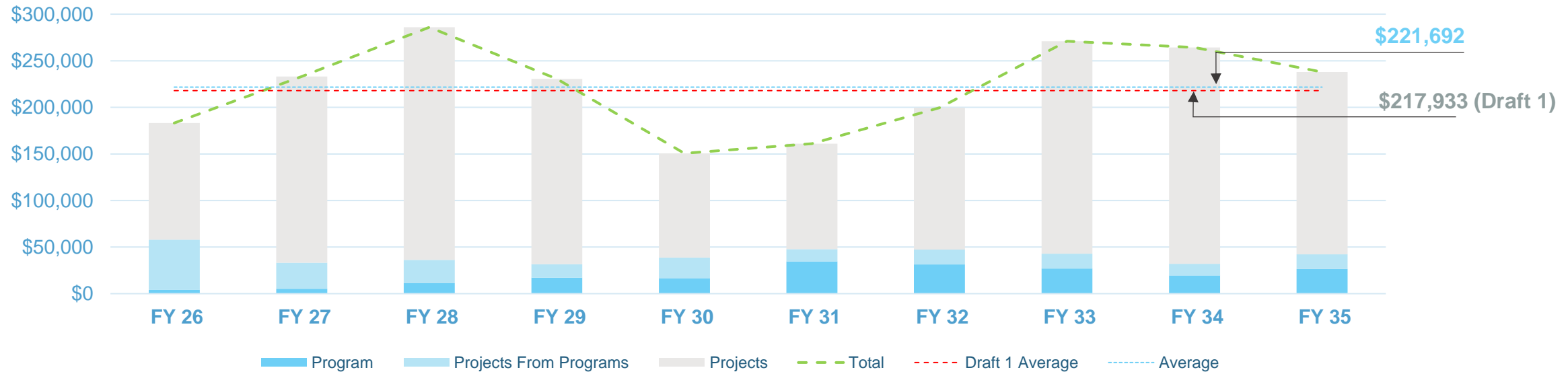


WATER FY 2026 - 2035 10-YEAR CIP OUTLOOK



	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
Total	\$179,407	\$183,064	\$233,120	\$285,942	\$230,461	\$150,642	\$160,957	\$199,570	\$270,957	\$264,197	\$238,011

10-Year Water CIP Outlook



1.7% increase in 10-year average from Draft 1 FY 26-30 CIP (\$ 217,933)

Financial figures in \$1,000s and rounded



CIP – Capital Improvement Plan | FY – Fiscal Year

WASTEWATER FY 2026 - 2030 CIP SUMMARY



CIP Document	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	5-Year Total
Draft #2 Wastewater CIP FY 26-30	\$163,276	\$193,221	\$291,841	\$337,800	\$261,115	\$187,625	\$1,271,603
Draft #1 Wastewater CIP FY 26-30		\$200,329	\$286,379	\$313,596	\$256,043	\$189,542	\$1,245,889
Difference (\$)		-\$7,107	\$5,462	\$24,203	\$5,073	-\$1,917	\$25,714
Difference (%)		-3.55%	1.91%	7.72%	1.98%	-1.01%	2.06%

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

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

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



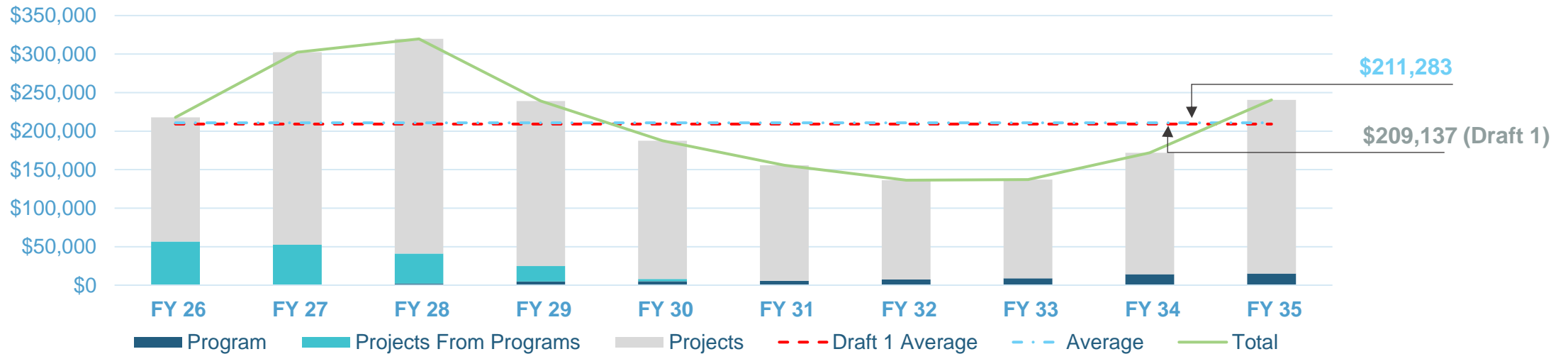
WASTEWATER FY 2026 - 2035 10-YEAR CIP OUTLOOK



	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	FY 35
Program	\$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

Financial figures in \$1,000s and rounded

10-Year Wastewater CIP Outlook



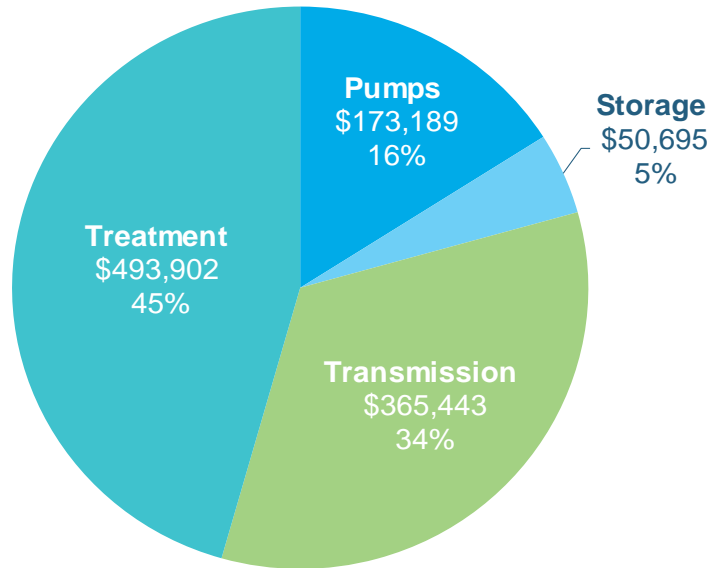
1% increase in 10-year average from Draft 1 FY 26-30 CIP (\$209,137)



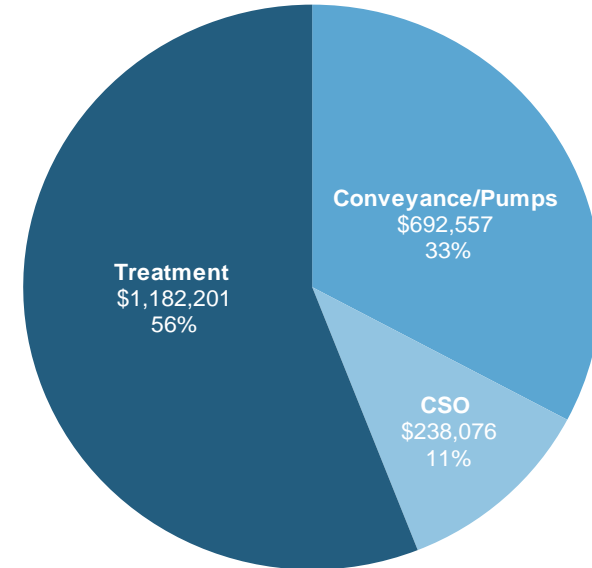
CIP – Capital Improvement Plan | FY – Fiscal Year

FY 2026 - 2030 CIP STATISTICS – BY FUNCTION

WATER PROJECTS 5-YEAR



WASTEWATER PROJECTS 5-YEAR

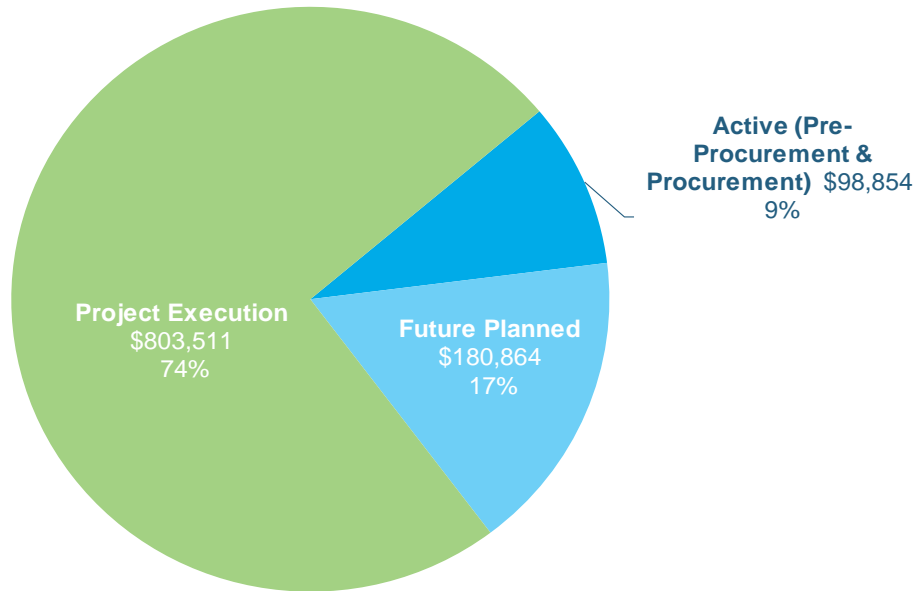


Financial figures in \$1,000s and rounded

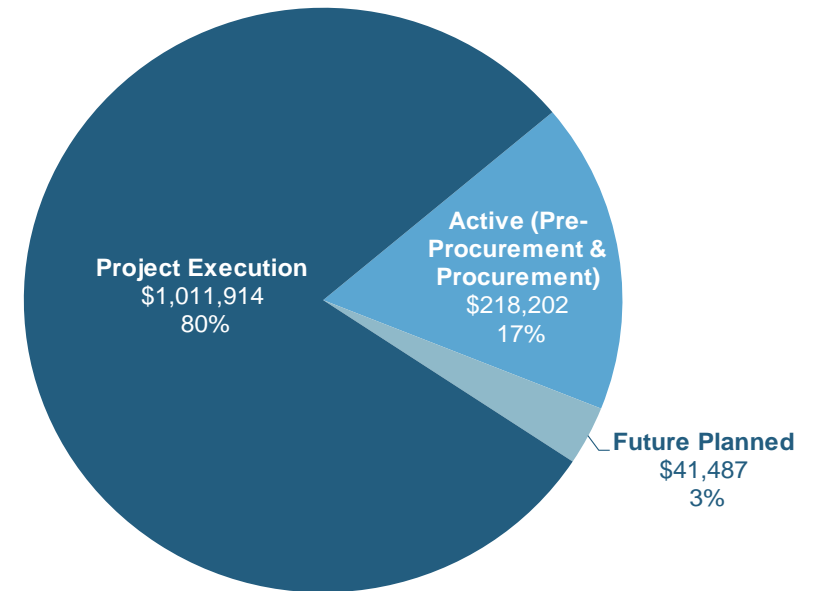
FY 2026 - 2030 CIP STATISTICS – BY PROJECT STATUS



WATER PROJECTS 5-YEAR



WASTEWATER PROJECTS 5-YEAR



Financial figures in \$1,000s and rounded

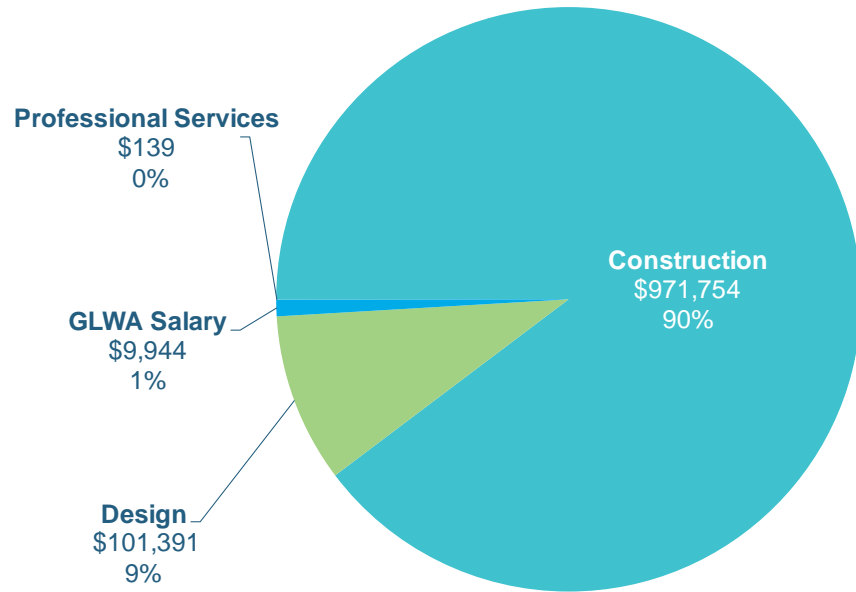


CIP – Capital Improvement Plan | FY – Fiscal Year

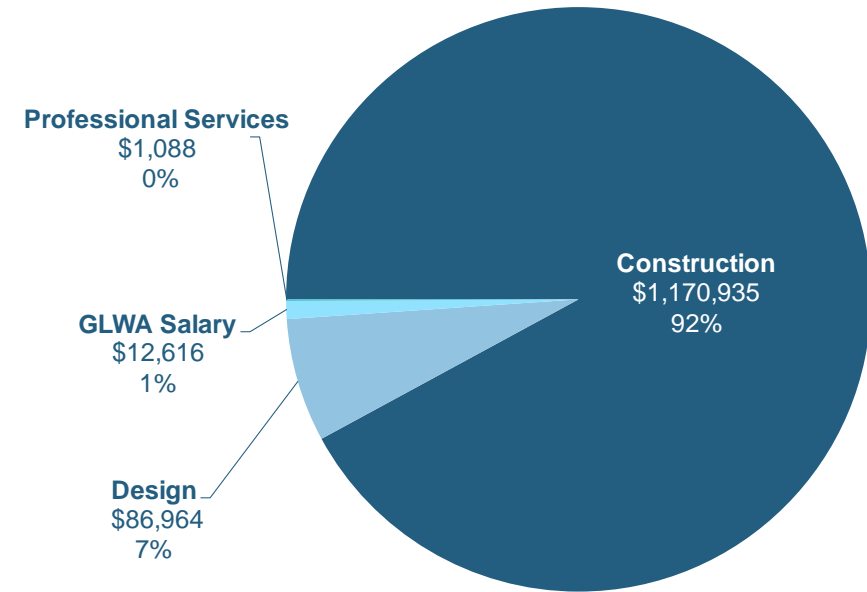
FY 2026 - 2030 CIP STATISTICS – BY SPEND CATEGORY



WATER 5-YEAR



WASTEWATER 5-YEAR



Financial figures in \$1,000s and rounded



CIP – Capital Improvement Plan | FY – Fiscal Year

CIP PUBLIC DASHBOARD



CIP Delivery Team



WHAT'S NEW - CIP PUBLIC DASHBOARD



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

GLWA Great Lakes Water Authority

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 to \$908,270

Project Start Fiscal Year: 2025 to 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	111001	Lake Huron WTP, Low-Lift, High Lift and Filter Backwash Pumping System Ir
111010	111010	Lake Huron WTP Filtration Improvement
111012	111012	LHWTP-Flocculation Improvements
111013	111013	Lake Huron Water Treatment Plant Fireloop and Plant Water Improvements
112003	112003	Northeast Water Treatment Plant High-Lift Pumping Station Improvements
112007	112007	NEWTP-Structural Repairs
112008	112008	Northeast Water Treatment Plant Filter Replacement
113003	113003	Southwest Water Treatment Plant Low- and High lift Pumping station Impro
113010	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 Expand

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

Months Years

CIP - GLWA

[Microsoft Power BI \(powerbigov.us\)](https://powerbigov.us)



CIP – Capital Improvement Plan

RECAP & NEXT STEPS



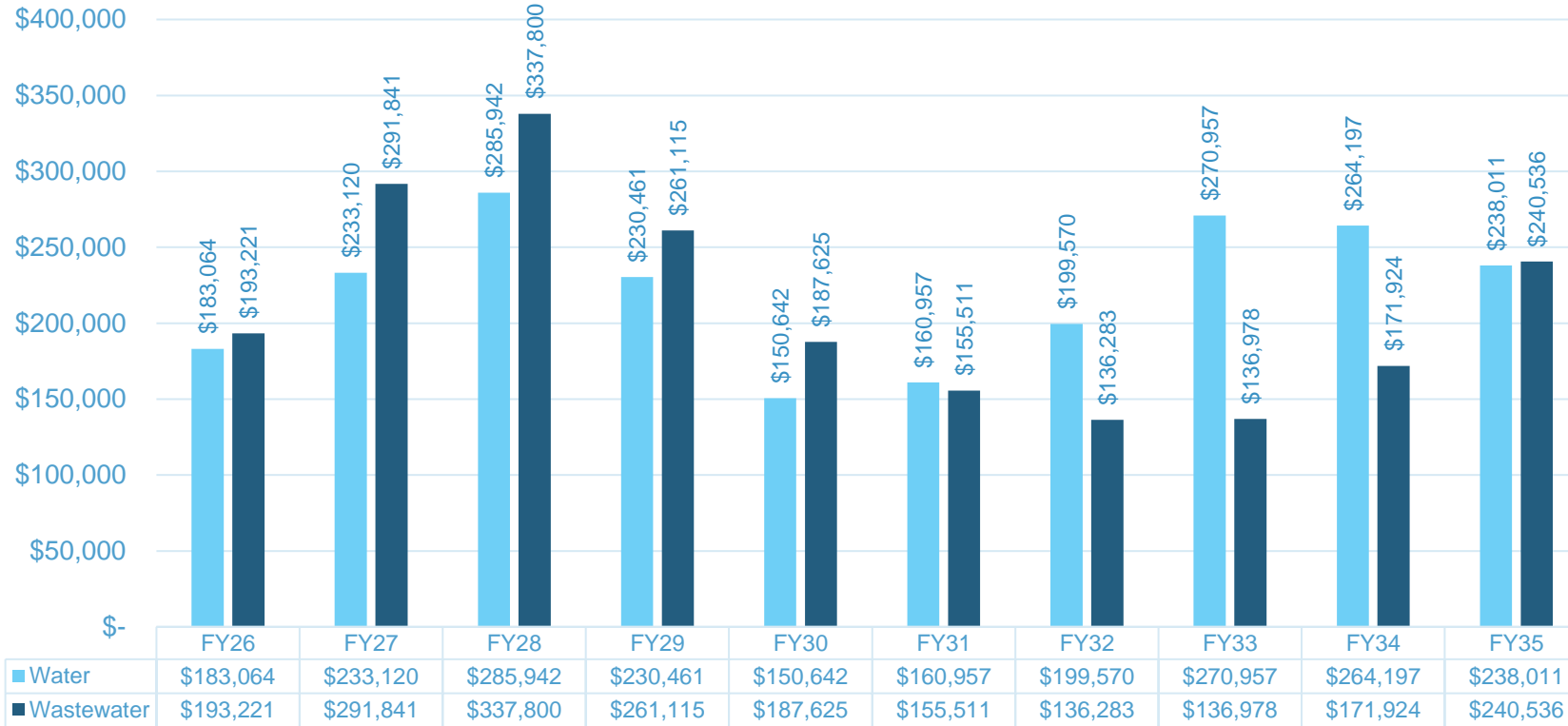
CIP Delivery Team



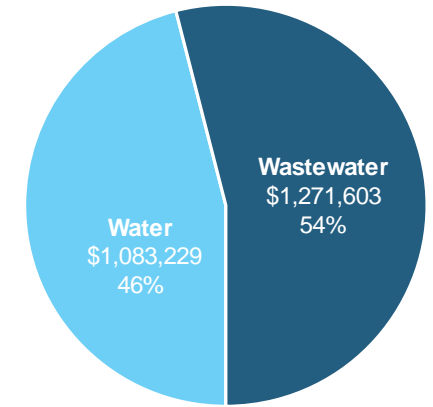
WATER & WASTEWATER CIP FY 2026 - 2035

(10 YEAR PROJECTIONS)

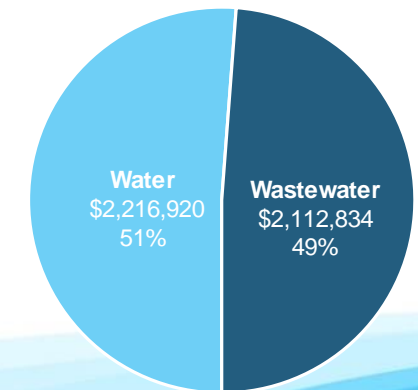
10 Year CIP



CIP FY 26-30 (5 Year) Business Unit



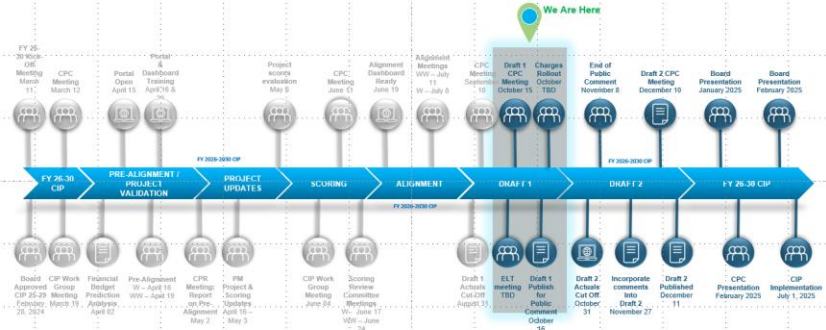
CIP FY 26-35 (10 Year) Business Unit



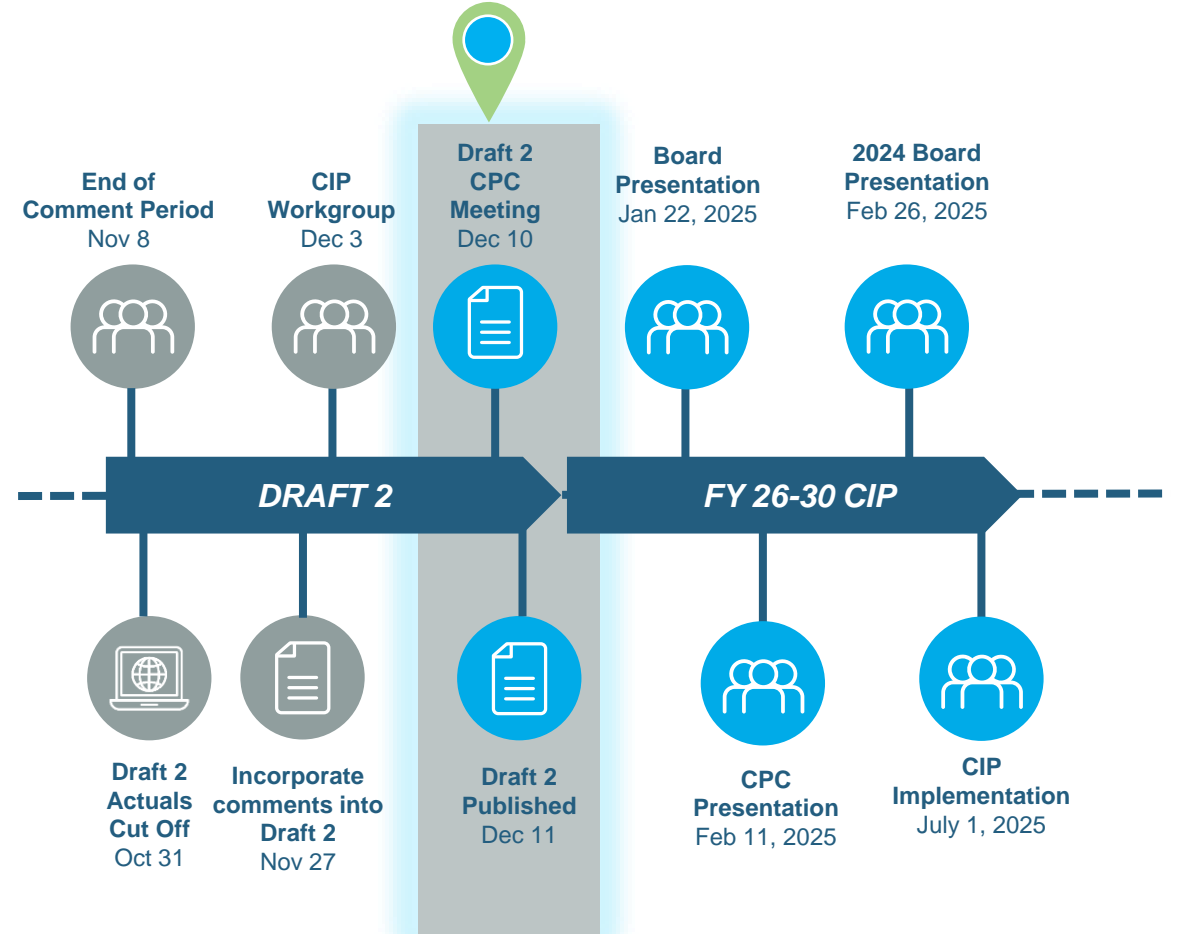
Financial figures in \$1,000s

FY 26-30 ROADMAP- WHAT'S NEXT

FY 26-30 ROADMAP- HOW WE GOT HERE



We Are Here



KEY TAKEAWAYS

💧 Discussion Draft # 1

- 💧 Presented to Capital Planning Committee (CPC) on October 15, 2024
- 💧 Comment period on Draft 1 from Oct 16 - Nov 8, 2024 – No comments received.

💧 Discussion Draft #2

- 💧 Published December 11, 2024 ([CIP - GLWA \(glwater.org\)](https://glwater.org))
- 💧 Reflects FY 2024 actuals as of September 30, 2024, and project manager updates as of November 15, 2024
- 💧 Wastewater and Water Systems:
 - 💧 Reflects forecast of the System's overall needs (aligned with GLWA's 10-year financial plan)
 - 💧 A Capital Spend Ratio (CSR) is proposed to mitigate the impacts of potential project complexities and resource limitations (Vendors and GLWA)

💧 Ready to move to the next approval stage

QUESTIONS & THANK YOU



CIP Delivery Team

