

CAPITAL IMPROVEMENT PLAN FY 24–28 DISCUSSION DRAFT 2

Capital Planning Committee Meeting

January 18, 2023

Dima El-Gamal, PhD, PE, LEED @ AP., Capital Improvement Planning Director
Jody Caldwell, PE, Chief Planning Officer



CIP

2024-2028

CAPITAL IMPROVEMENT PLAN

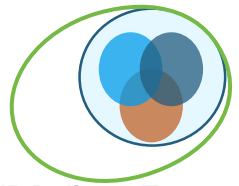
Updated December 13, 2022

Discussion Draft 2

Pump Station 1 Ferric Chloride Storage Tank #3
Photo submitted by: Khoder Daher of Wastewater Operating Services

Water Works Park Water Treatment Plant Yard Piping, Valves, and
Venturi Meters Replacement
Photo submitted by: Jacob Magnum of Water and Field Services

FY 24–28 CIP DISCUSSION DRAFT 2



CIP Delivery Team

AGENDA



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

FY24-28 CIP DISCUSSION DRAFT #2

KEY TAKEAWAYS



💧 Discussion Draft # 1

- 💧 Presented to CPC Committee on October 18, 2022
- 💧 Public comments period on Draft 1 from Oct 19 - Nov 18, 2022

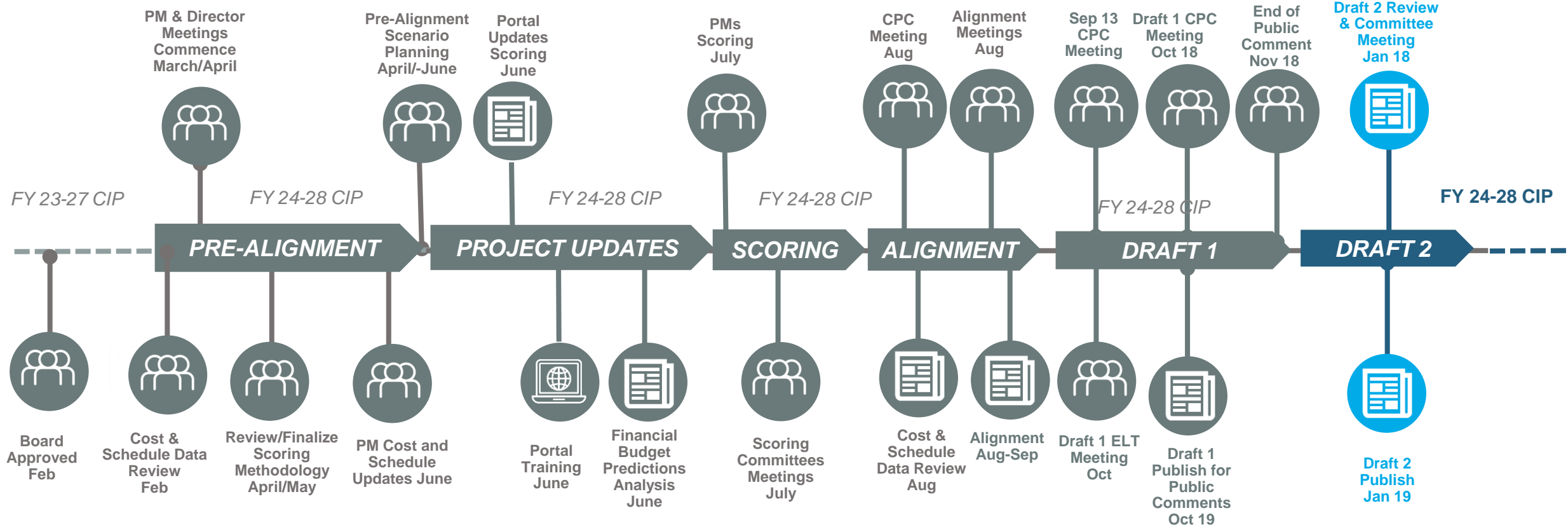
💧 Discussion Draft #2

- 💧 Is Complete
- 💧 Published Jan 19, 2022

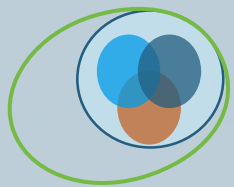
💧 FY24-28 CIP is in alignment with the GLWA's Financial Plan

💧 Ready to move to next approval stage

WE ARE HERE TODAY



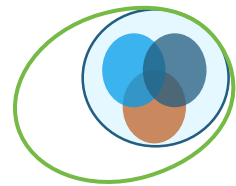
FY 2024-2028 DISCUSSION DRAFT#2 FEEDBACK ON DISCUSSION DRAFT#1



CIP Delivery Team



FEEDBACK SUMMARY ON DISCUSSION DRAFT #1



CIP Delivery Team

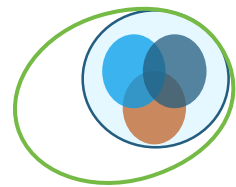
- ◆ **Document: FY 24-28 Discussion Draft #1**
- ◆ **Draft #1 Release Date: October 18, 2022**
- ◆ **Public Comments Due Date: November 18, 2022**



◆ **Questions/Comments Received (Source):**

- A. City of Detroit Meeting on October 28, 2022 *(6 questions)*
- B. CIP workgroup meeting Nov 15, 2022 *(2 questions)*
- C. City of Detroit letter dated Nov 18, 2022 *(1 questions)*
- D. City of Dearborn letter dated Nov 18, 2022 *(4 questions)*
- E. Mr. Jeff McKeen, SOCWA email dated November 30, 2022 *(3 questions)*

FEEDBACK SUMMARY ON DISCUSSION DRAFT #1



CIP Delivery Team

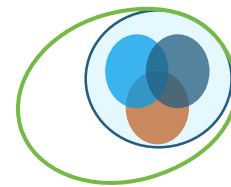
Major Areas of Concern:

- CIP #222001 Oakwood District Intercommunity Relief Sewer
- CIP #170601 Linear System Integrity Program (LSIP)
- Aging water transmission mains
- Jefferson Chalmers project
- Springwells Water Treatment Plant (WTP)
- CIP projects prioritization process
- CIP alignment with the financial plan and related bonding
- Northeast WTP repurposing

IMPORTANT

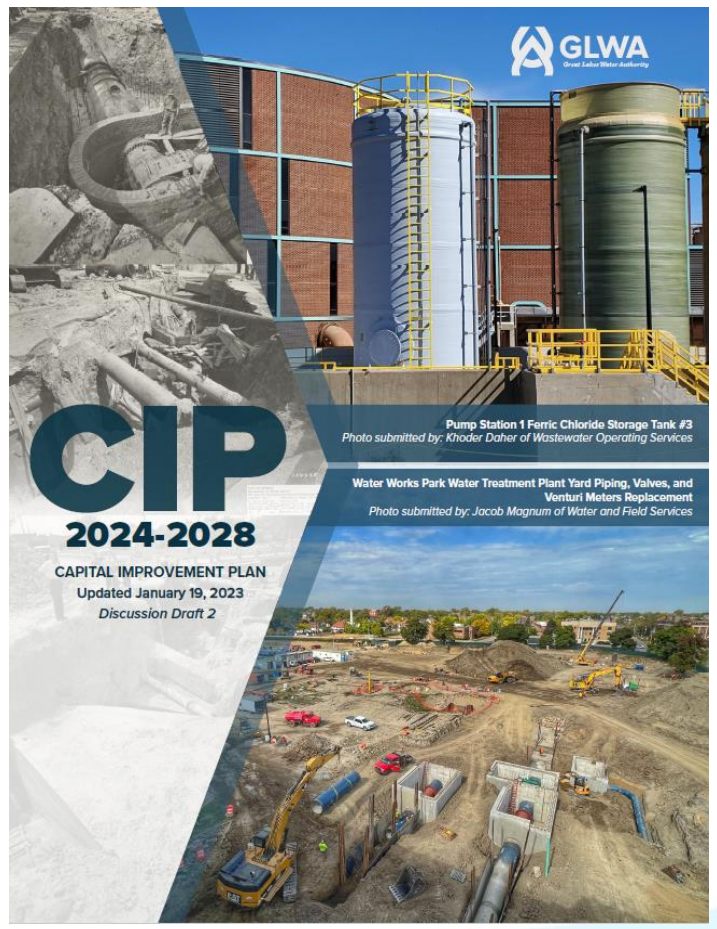


FEEDBACK SUMMARY ON DISCUSSION DRAFT #1

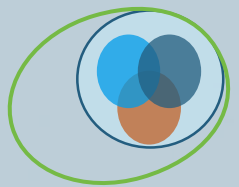


CIP Delivery Team

GLWA's Responses to comments / questions received on Draft #1



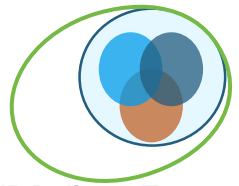
FY 2024-2028 DISCUSSION DRAFT#2 CHANGES SINCE DISCUSSION DRAFT#1



CIP Delivery Team



FY 24–28 CIP DISCUSSION DRAFT 2-MODIFICATIONS



CIP Delivery Team

💧 New in Draft#2

💧 Chapter 4-Finance

💧 CIP document cover and acknowledgment page

💧 Projects from programs

💧 10-Year Outlook table is now broken into three categories

💧 New Project Status: added future planned beyond 10 years

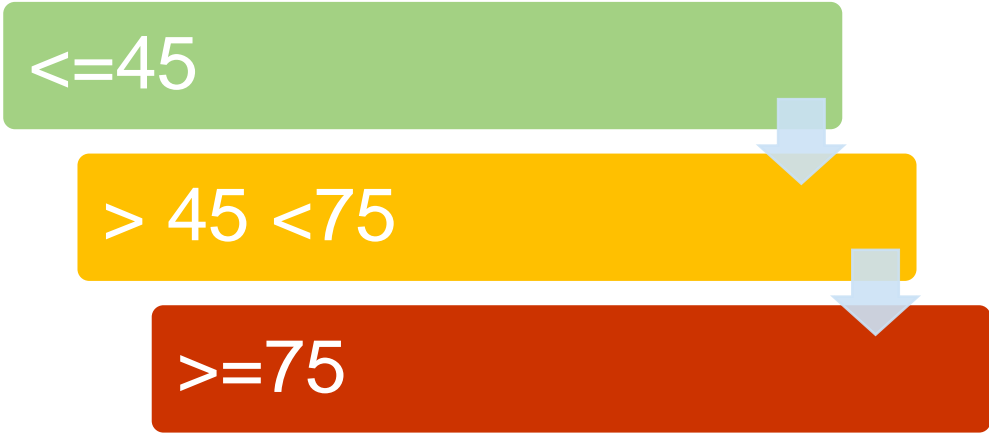
💧 Updated Prior FYs in BCEs

💧 Realtime updates : Actuals as of October 30, 2022



FY 2024-2028 PRIORITIZATION

Score-Based Evaluation



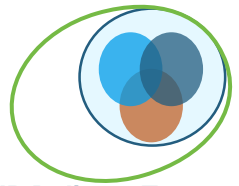
Project Status Based Evaluation



Deep Dive



FY 24–28 CIP DISCUSSION DRAFT 2-MODIFICATIONS

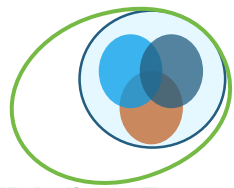


CIP Delivery Team

💧 Administrative Changes

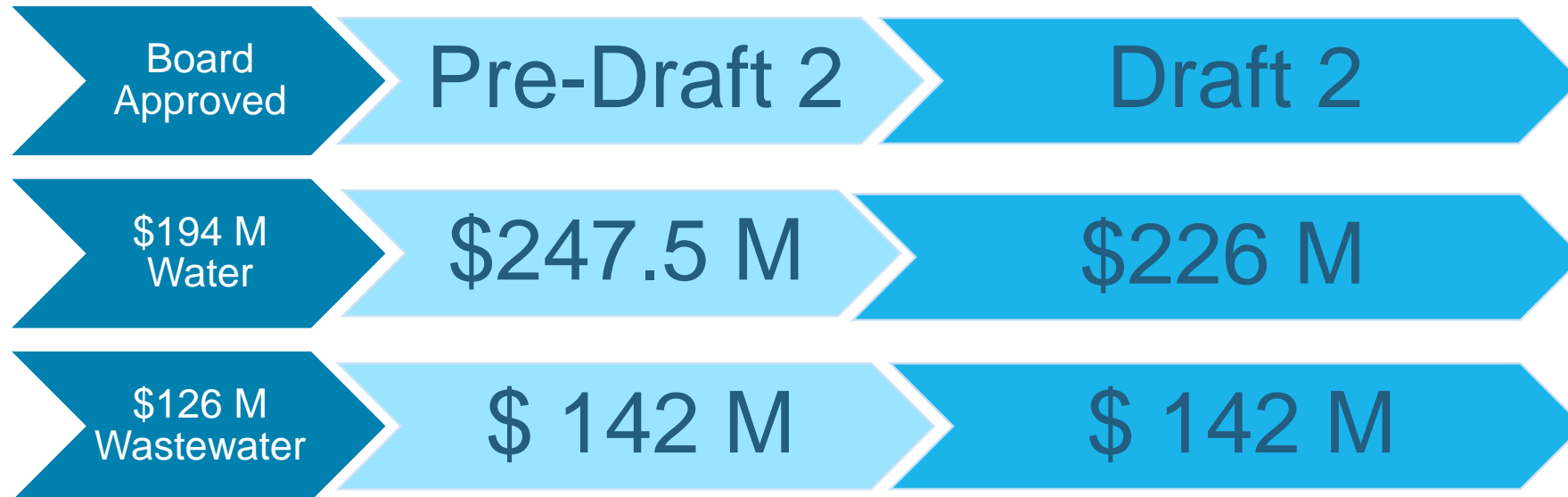
- 💧 **2.2 Project Progressed to Active table title was changed to Project Progressed to Active/Project Execution**
- 💧 **3.4 Water CIP Project Totals table: Active Water Projects Total Status row was changed to Active/Project Execution Water Projects Total**
- 💧 **3.5 Wastewater CIP Project Totals table: Active Wastewater Projects Total Status row was changed to Active/Project Execution Wastewater Projects Total**

FY 24–28 CIP DISCUSSION DRAFT 2-MODIFICATIONS



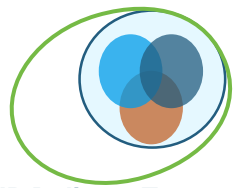
CIP Delivery Team

- 🔹 **FY 23 Forecast***
- 🔹 **Re-alignment-Water**



**Based on October actuals*

FY 24–28 CIP DISCUSSION DRAFT 2-RE ALIGNMENT

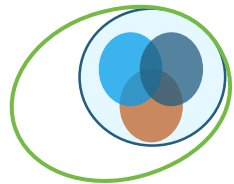


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- 💧 **Budget Changes FY 24-28**
 - 💧 Actuals as of October 30th
 - 💧 Cost and Schedule updates



FY 24–28 CIP DISCUSSION DRAFT 2-Water Re-Alignment



CIP Delivery Team

💧 Design paused in FY 23 (to resume in FY 24)

- 💧 CIP 111012: LHWTP-Flocculation Improvements
- 💧 CIP 122018: Garland, Hurlbut, Bewick Water Transmission System Rehabilitation

💧 Postponed Start

- 💧 CIP 111006: Lake Huron Water Treatment Plant, Filter Instrumentation and Raw Water Flow Metering Improvements
Design-Build Contract start date postponed from 04/15/22 to 05/01/23.
- 💧 CIP 122018: Garland, Hurlbut, Bewick Water Transmission System Rehabilitation
Construction start date postponed from 07/01/28 to 7/1/2033.
- 💧 CIP 112003: Northeast Water Treatment Plant High-Lift Pumping Station Improvements
Design start date postponed from 07/01/23 to 7/1/25 (FY26).
- 💧 CIP 113009: SW Flight and Chain Upgrades
Construction start date postponed from 05/01/22 to 7/1/23
- 💧 CIP 122016: Downriver Transmission Main Loop
Construction start date postponed from 07/01/23 to 1/1/2024

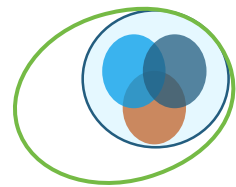
💧 Switched to Internal Support

- 💧 **Varies: CS-272 Professional Services**

💧 Accelerated

- 💧 **CIP 122017: 7 Mile/Nevada Transmission Main Rehab and Carrie/Nevada Flow Control Station**
Construction start date accelerated from 04/13/34 to 1/1/2025

CIP AT A GLANCE



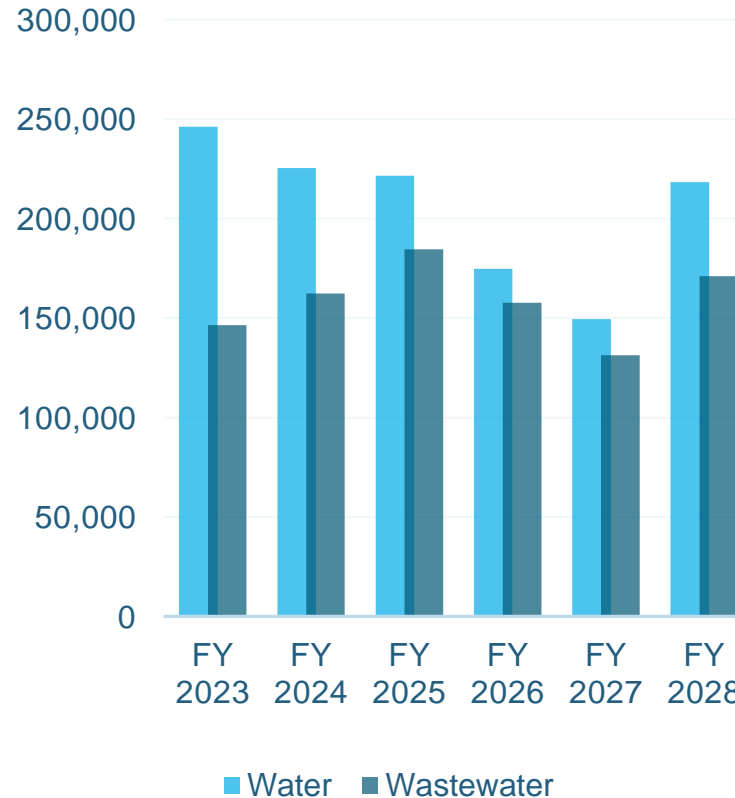
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WATER	
5-Year Total	\$986,616
5-Year Average	\$197,323
10-Year Total	\$1,957,610
10-Year Average	\$195,761

WASTEWATER	
5-Year Total	\$798,176
5-Year Average	\$159,635
10-Year Total	\$1,560,661
10-Year Average	\$156,066

Note : Figures are shown in \$1,000's.

5-Year Outlook



*5 NEW PROJECTS FROM PROGRAMS

**IN ADDITION TO THE 168 PROJECTS, THERE ARE:
+2 RECLASSIFIED PROJECTS
+1 CANCELLED PROJECT



Financial figures in \$1,000s and rounded

FY2024-2028 CIP SUMMARY- MODIFICATIONS

CIP Document	FY2023	FY2024	FY2025	FY2026	FY 2027	FY 2028	5-Year Total
Draft #2 Water CIP FY 2024-2028	\$225,790	\$239,260	\$200,422	\$176,034	\$165,813	\$205,087	\$986,616
Draft #1 Water CIP FY 2024-2028		\$252,973	\$212,568	\$174,484	\$179,831	\$160,802	\$980,659
BA							
Difference (\$)		(\$13,713)	(\$12,146)	\$1,550	(\$14,018)	\$44,285	\$5,957
Difference (%)		-6%	-6%	1%	-8%	22%	1%
Bond Projections							

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

CIP Document	FY2023	FY2024	FY2025	FY2026	FY 2027	FY 2028	5-Year Total
Draft #2 Wastewater CIP FY 2024-2028	\$139,442	\$199,061	\$190,159	\$159,044	\$133,732	\$116,180	\$798,764
Draft #1 Wastewater CIP FY 2024-2028		\$188,024	\$187,024	\$165,085	\$134,658	\$113,026	\$788,604
Difference (\$)		\$11,037	\$3,135	(\$6,041)	(\$926)	\$3,154	\$10,160
Difference (%)		6%	2%	-4%	-1%	3%	1%

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



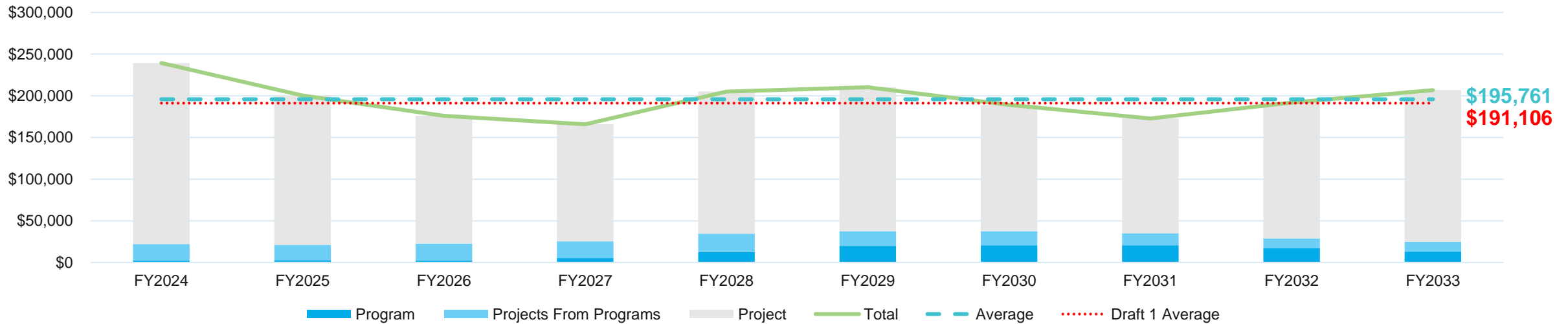
Financial figures in tables are in \$1,000s and rounded

FY2024-2033 10-YEAR WATER CIP OUTLOOK UPDATES

	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Programs	\$169	\$2,327	\$2,665	\$2,410	\$5,319	\$12,393	\$19,861	\$20,567	\$20,541	\$16,958	\$13,011
Projects From Programs	\$20,412	\$19,775	\$18,434	\$20,210	\$20,040	\$22,148	\$17,666	\$16,988	\$14,430	\$11,940	\$11,907
Projects	\$220,876	\$233,304	\$199,117	\$153,490	\$155,766	\$133,277	\$133,939	\$122,543	\$156,709	\$181,359	\$171,762
Total	\$225,789	\$239,260	\$200,422	\$176,034	\$165,813	\$205,087	\$210,312	\$189,062	\$172,765	\$191,957	\$206,898

Financial figures in \$1,000s and rounded

10-Year Water CIP Outlook

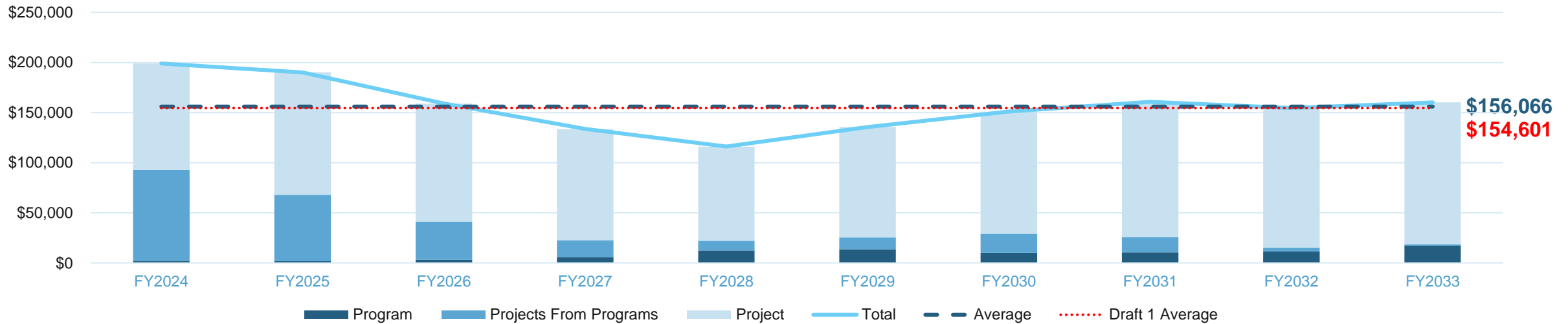


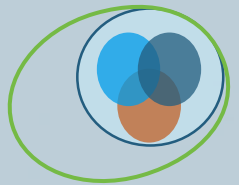
FY2024-2033 10-YEAR WASTEWATER CIP OUTLOOK UPDATES

	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Programs	\$802	\$2,240	\$1,730	\$3,243	\$5,716	\$12,502	\$13,623	\$10,117	\$10,637	\$11,391	\$17,150
Projects From Programs	\$71,503	\$90,527	\$66,322	\$38,202	\$17,140	\$9,625	\$11,772	\$19,005	\$15,244	\$3,956	\$1,513
Projects	\$67,108	\$106,294	\$122,107	\$117,599	\$110,875	\$94,053	\$110,268	\$121,954	\$134,987	\$139,287	\$141,581
Total	\$139,412	\$199,061	\$190,159	\$159,044	\$133,732	\$116,180	\$135,663	\$151,075	\$160,868	\$154,635	\$160,244

Financial figures in \$1,000s and rounded

10-Year Wastewater CIP Outlook





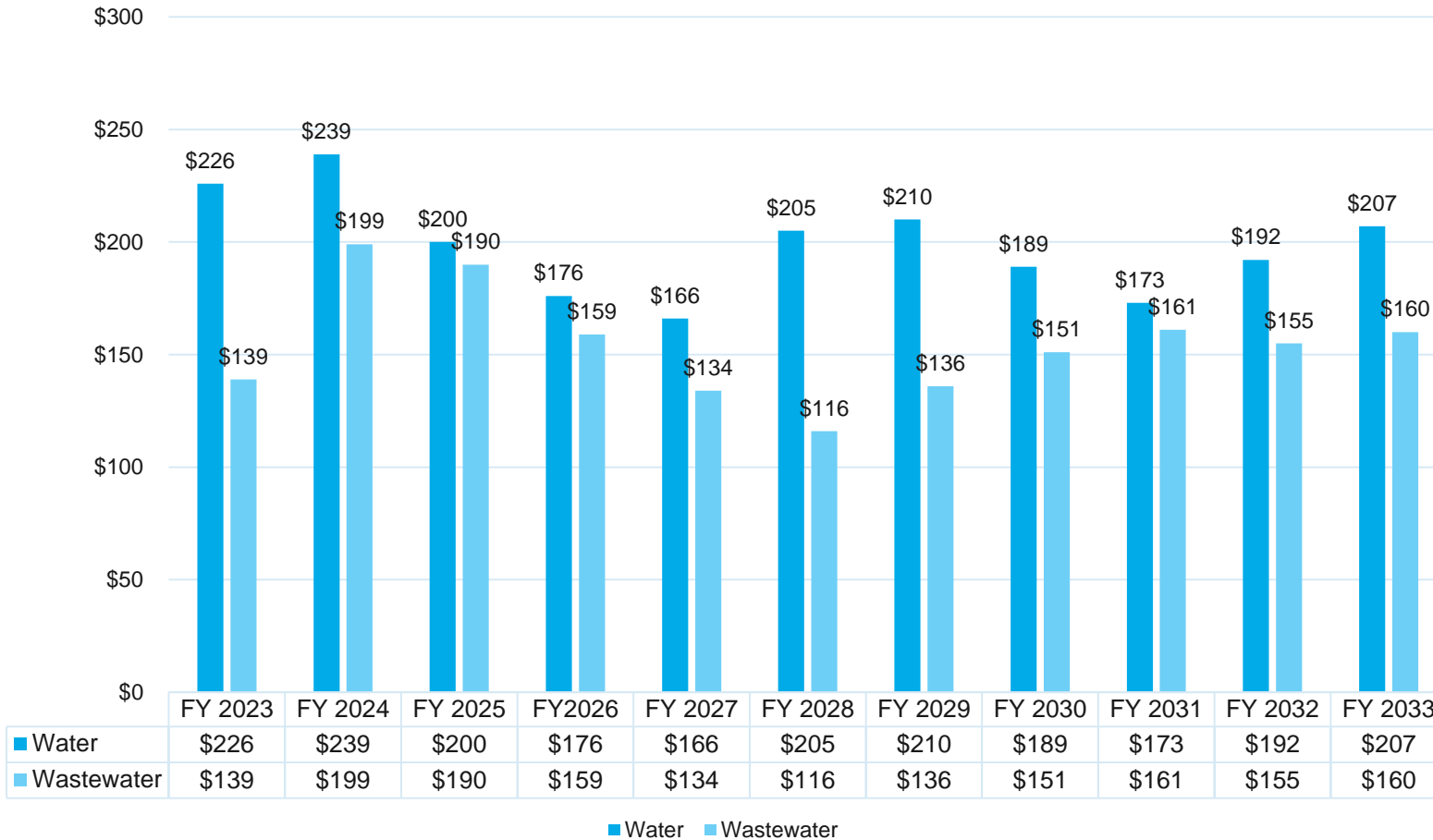
CIP Delivery Team

RECAP & NEXT STEPS



WATER & WASTEWATER CIP FY 24-33 (10YR PROJECTIONS)

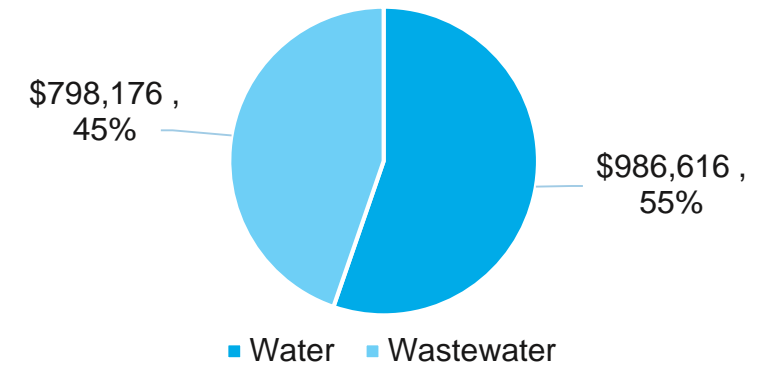
10 Year CIP



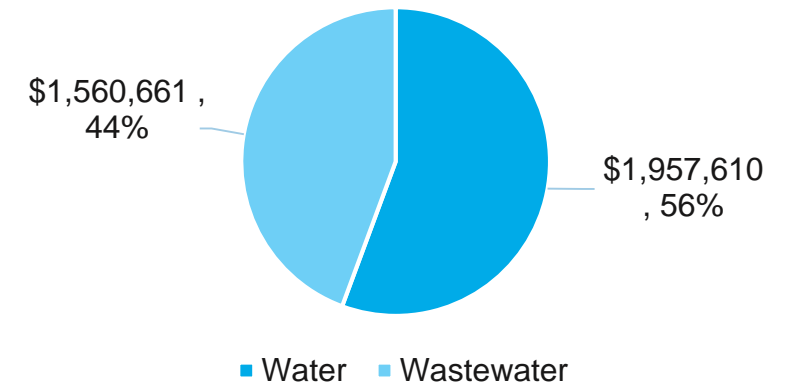
Financial Figures are shown in millions and rounded



CIP 2024-2028 by Business Unit

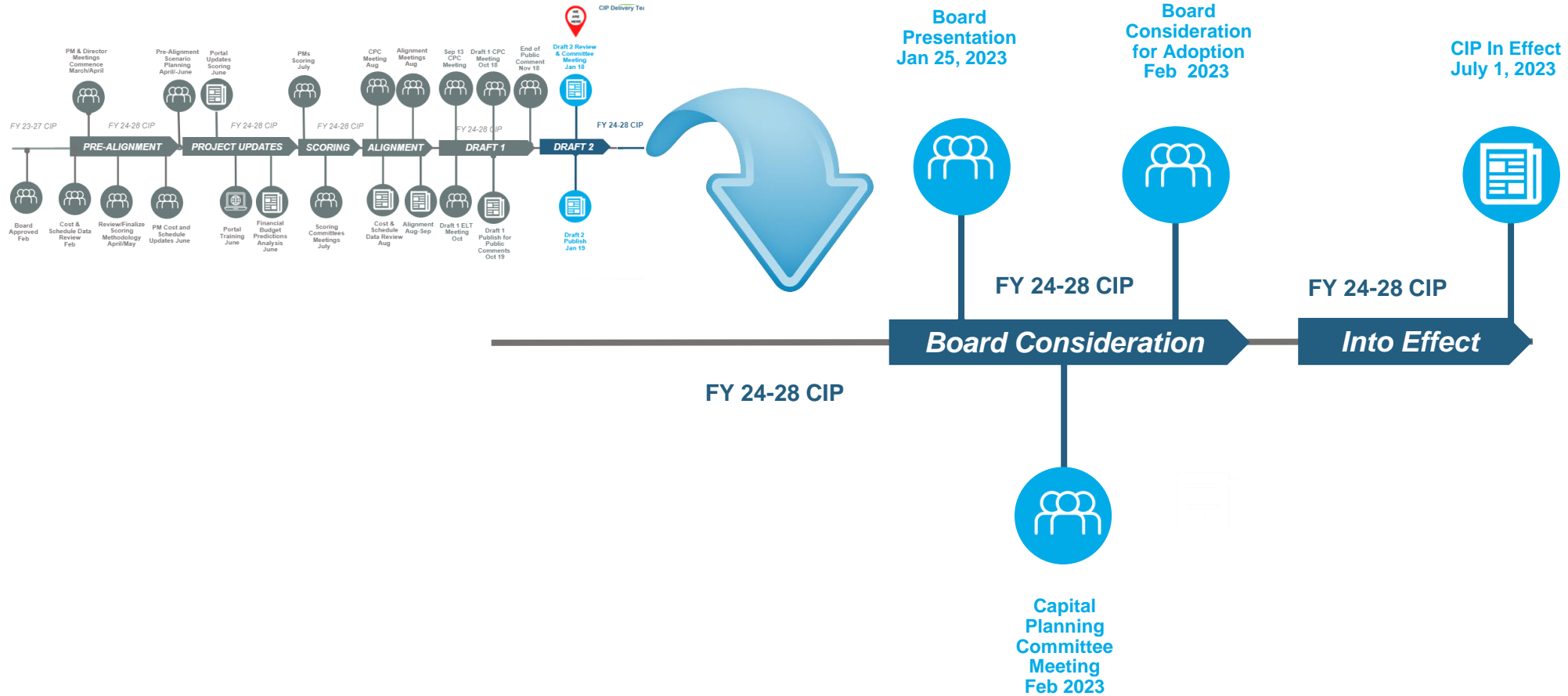


CIP 2024-2033 by Business Unit



Financial figures in \$1,000s

FY 24-28 DISCUSSION DRAFT #2-WHAT'S NEXT ?



FY24-28 CIP DISCUSSION DRAFT #2

KEY TAKEAWAYS



CIP Delivery Team

💧 Discussion Draft 1

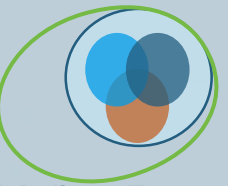
- 💧 Presented to CPC Committee on October 18
- 💧 Public comments period on Draft 1 from Oct 19- Nov 18

💧 Discussion Draft #2

- 💧 Is Complete
- 💧 Reflects FY 23 actuals as of October 30, 2022
- 💧 Include water projects realignment to address FY 23 spending
- 💧 Published Jan 19, 2023

💧 FY24-28 CIP is in alignment with the GLWA's Financial Plan

💧 Ready to move to next approval stage



CIP Delivery Team

QUESTIONS & THANK YOU

