



Structural Inspection & Structural Improvements
Photo Submitted by: Kashmira Patel of Wastewater Operating Services



CIP

FY2025-2029

PROPOSED CAPITAL
IMPROVEMENT PLAN

Updated January 12, 2024



96-Inch Water Transmission Main Relocation and Isolation Valve Installations
Photo Submitted by: Corey Brecht of Water and Field Services



CIP Delivery Team

GLWA FY 2025 - 2029 CAPITAL IMPROVEMENT PLAN

GLWA Board of Directors Meeting January 24, 2024

Jody Caldwell, PE
Chief Planning Officer

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

AGENDA



CIP Delivery Team

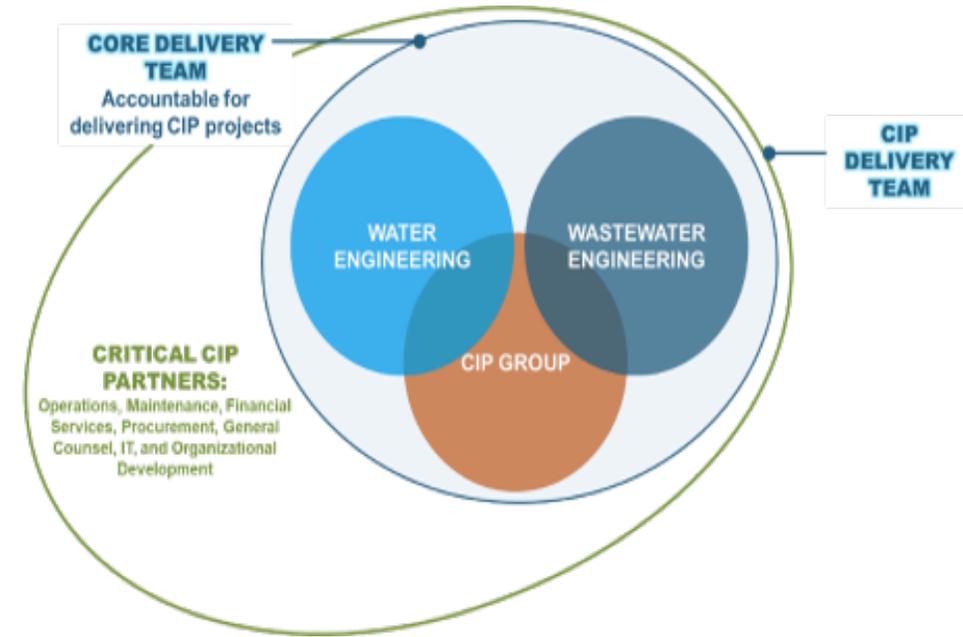
- 💧 **KEY TAKEAWAYS**
- 💧 **FY 2025 - 2029 CIP ROAD MAP**
- 💧 **FY 2025 - 2029 CIP HIGHLIGHTS**
- 💧 **RECAP AND QUESTIONS**

AGENDA



KEY TAKEAWAYS

- ◆ Five-year forward-looking document with a 10-year outlook
- ◆ FY 2025-2029 CIP is in alignment with the GLWA's Financial Plan
- ◆ Opportunities for Stakeholders to provide input during development
- ◆ Board Capital Planning Committee recommended CIP approval to the Board on Dec 12, 2023
- ◆ Needed projects from all areas of the organization to promote redundancy, resiliency, and health & safety
- ◆ Conformance with recommendations of master plans and meets regulatory and operational needs



FY 2025-2029 CIP ROADMAP

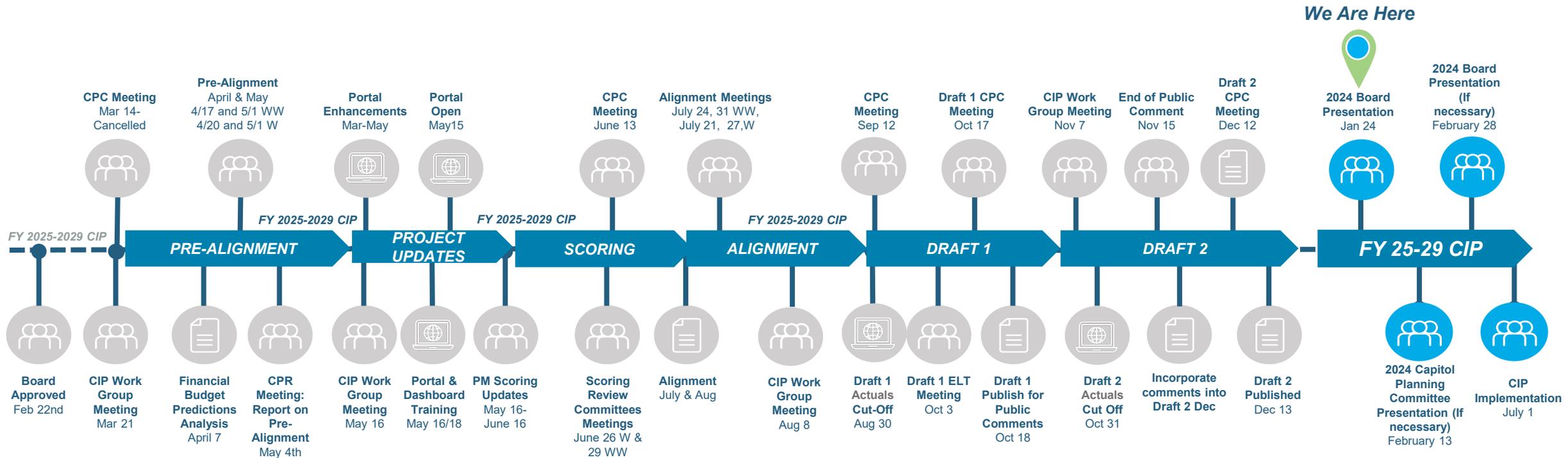


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FY 2025-2029 ROADMAP

HOW WE GOT HERE & WHERE WE ARE TODAY



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

FY 2025-2029 CIP HIGHLIGHTS



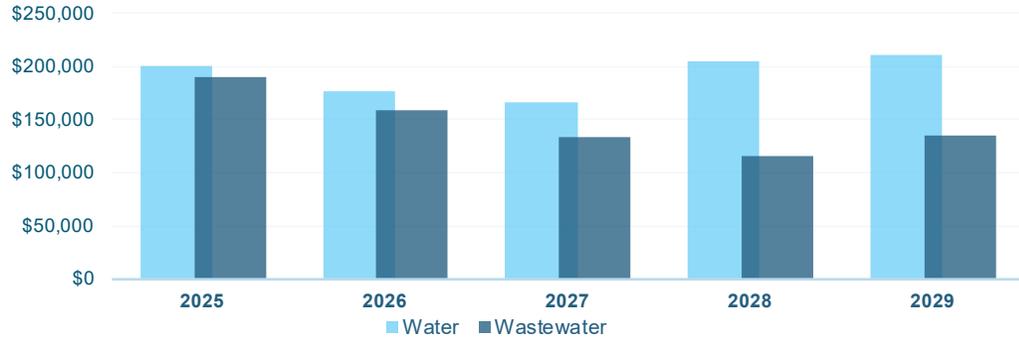
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FY 2025-2029 Discussion Draft 2-CIP AT A GLANCE



5-Year Outlook

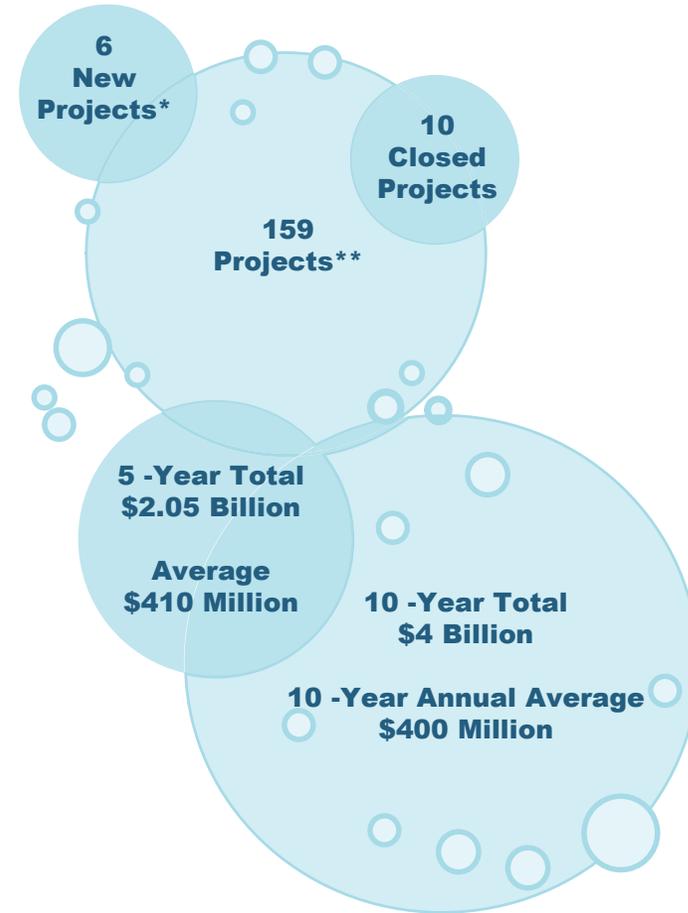


Financial figures in \$1,000s and rounded

WATER	
5-Year Total	\$1,071,788
5-Year Average	\$214,358
10-Year Total	\$2,180,458
10-Year Average	\$218,046

WASTEWATER	
5-Year Total	\$982,525
5-Year Average	\$196,505
10-Year Total	\$1,822,439
10-Year Average	\$182,244

Based on Oct 31, 2023, Actuals and PM cost and schedule updates as of Nov 20, 2023



*3 NEW PROJECTS FROM PROGRAMS

** IN ADDITION TO THE 159 PROJECTS, THERE ARE:
 +2 RECLASSIFIED PROJECTS
 +3 CANCELLED PROJECTS

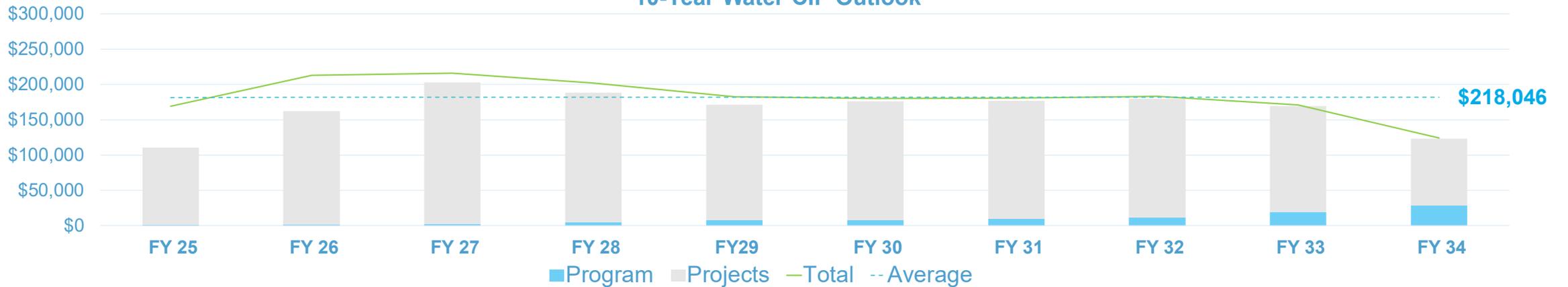


FY 2025-2034 10-YEAR WATER CIP OUTLOOK



	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34
Program	\$42	\$6,684	\$11,752	\$5,785	\$15,233	\$25,192	\$31,442	\$31,416	\$26,840	\$20,942	\$17,752
Projects	\$182,143	\$175,675	\$174,364	\$188,417	\$193,187	\$144,313	\$153,861	\$145,924	\$193,285	\$196,706	\$225,455
Total	\$205,662	\$207,333	\$209,752	\$227,823	\$236,331	\$190,550	\$202,288	\$189,586	\$232,086	\$229,576	\$255,134

10-Year Water CIP Outlook

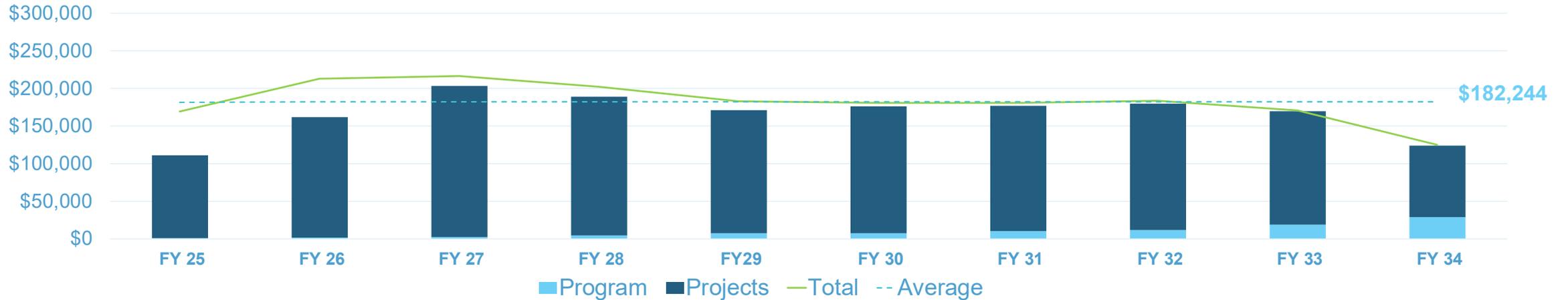


FY 2025-2034 10-YEAR WASTEWATER CIP OUTLOOK



	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34
Program	\$474	\$712	\$1,741	\$2,241	\$4,700	\$7,531	\$7,531	\$9,812	\$11,259	\$18,996	\$28,429
Projects	\$78,674	\$110,046	\$160,214	\$200,964	\$183,772	\$163,736	\$168,713	\$167,184	\$168,404	\$150,431	\$95,038
Total	\$158,298	\$169,189	\$212,693	\$216,231	\$201,995	\$182,417	\$180,433	\$180,716	\$183,392	\$170,901	\$124,472

10-Year Wastewater CIP Outlook

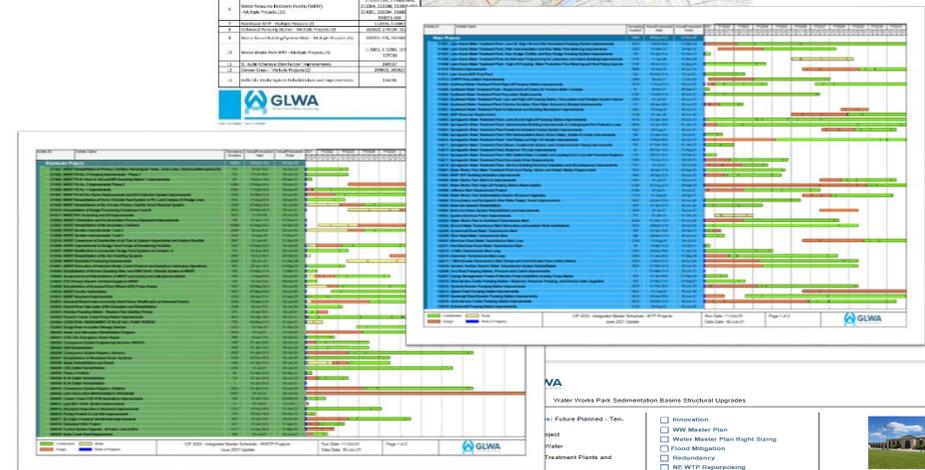
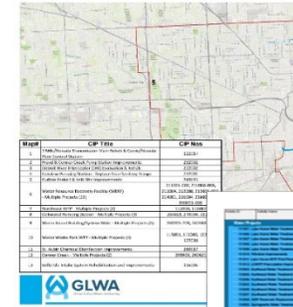
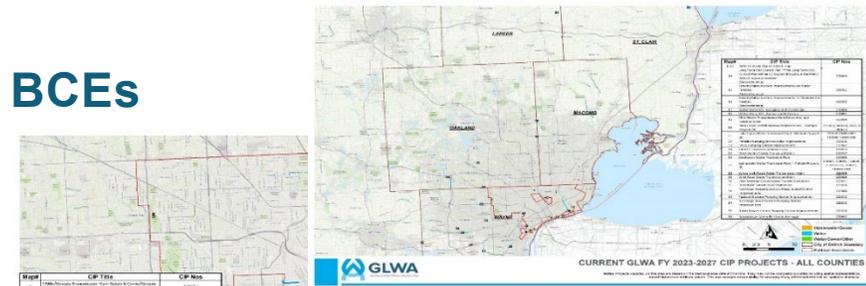


FY 25-29 CIP DOCUMENT



CIP Delivery Team

- Discussion Draft #2 can be found at [CIP - GLWA \(glwater.org\)](https://glwater.org)
- CIP At-A-Glance, project summaries, and Water & Wastewater BCEs
- Summary tables, GIS Maps, and integrated master schedule
- Continuous Improvement
 - Scoring, financial alignment, BCE layout
- Improved reporting, Discussion Draft (2) reflects
 - Actuals (Oct 31) and PM updates (Nov 20)
- Northeast Water Treatment Plant (WTP)
 - “Right sizing” per the 2015 Masterplan
 - Continue to operate the Northeast WTP to maintain system resiliency



VA Water Works Park Sedimentation Basins Structural Upgrades

Page 1
CIP Number: 115009

Future Planned - Ten:

- Innovation
- RW Master Plan
- Water Master Plan Right Sizing
- Flood Mitigation
- Resiliency
- NE WTP Supporposing
- Resiliency Projects
- Linear Assets Outside of Facilities
- CSD
- Pumps
- Storage
- Treatment

Project Score: 76.3

Project Manager: Jacide Mangum
Director: Peter Finsen
Managing Dept.: Water Eng

Date Original Business Case Prepared: 7/20/2021
Year Project Added to CIP: 2021
CIP (Project): Water

Project Jurisdiction: City of Detroit
Location: Location: City of Detroit
Funds and Cost Center: Water - 5510-002411
(Paid Engineering)

Collaboration Opportunities: TBD
Partners:
Collaboration Entity:



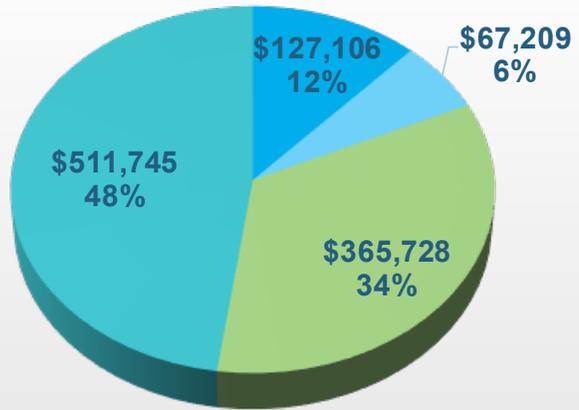
CIP – Capital Improvement Plan | BCE – Business Case Evaluation (BCE)
PM – Project Manager | WTP - Water Treatment Plant

FY 25-29 CIP STATISTICS AND RECAP

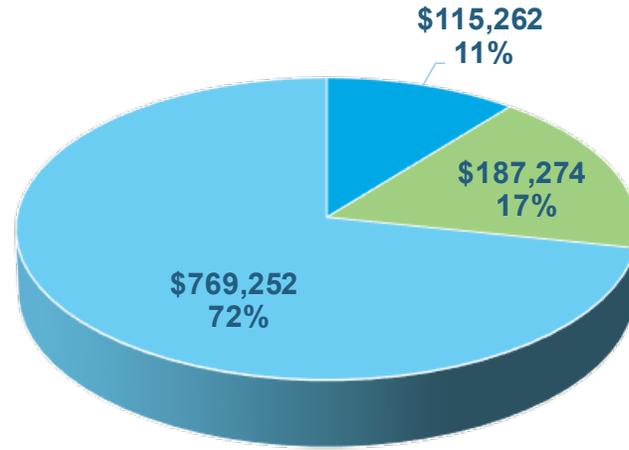


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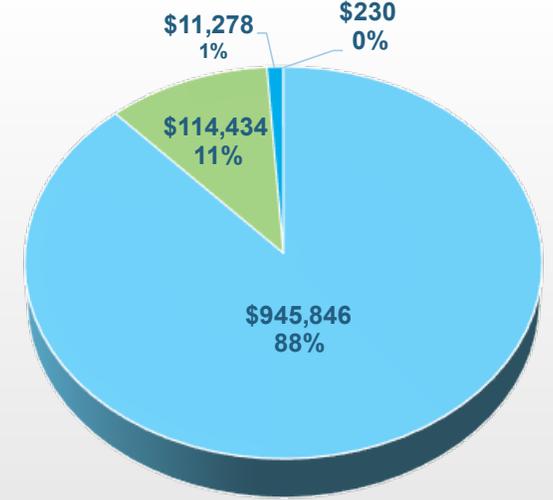
WATER



- Water Pumps
- Water Storage
- Water Transmission
- Water Treatment

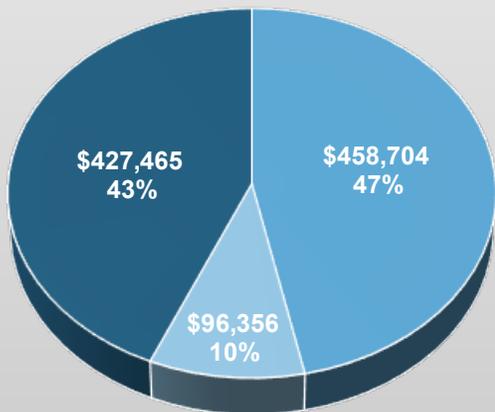


- Active Water
- Future Planned Water
- Project Execution Water

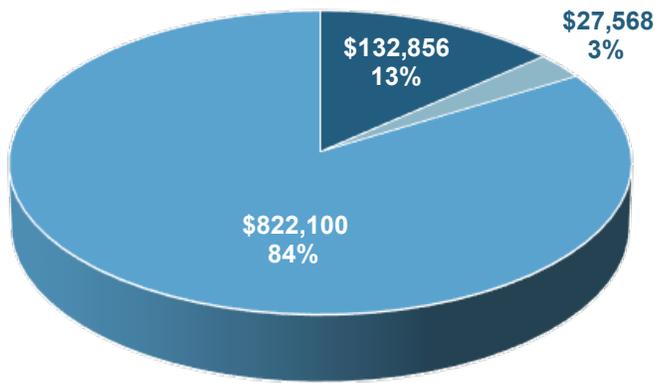


- Construction
- Design
- GLWA Salary
- Professional Services

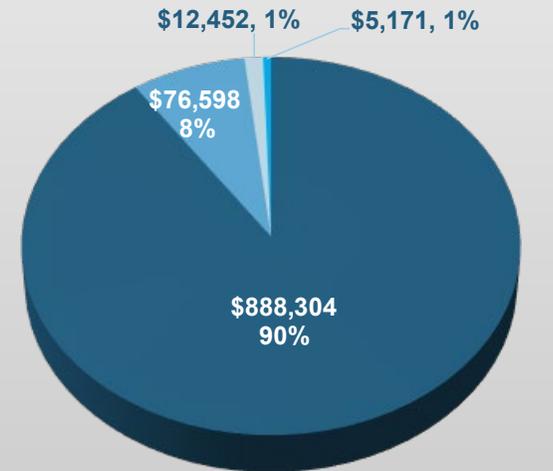
WASTEWATER



- Wastewater Conveyance/Pumps
- Wastewater CSO
- Wastewater Treatment



- Wastewater Active
- Wastewater Future Planned
- Wastewater Project Execution



- Construction
- Design
- GLWA Salary
- Professional Services

RECAP & NEXT STEPS



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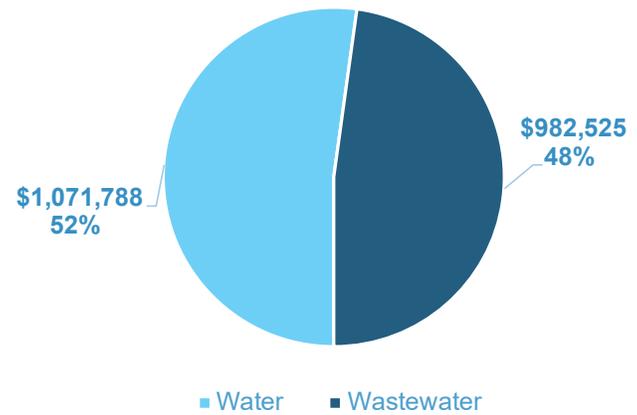
WATER & WASTEWATER CIP FY 25-34

(10YR PROJECTIONS)

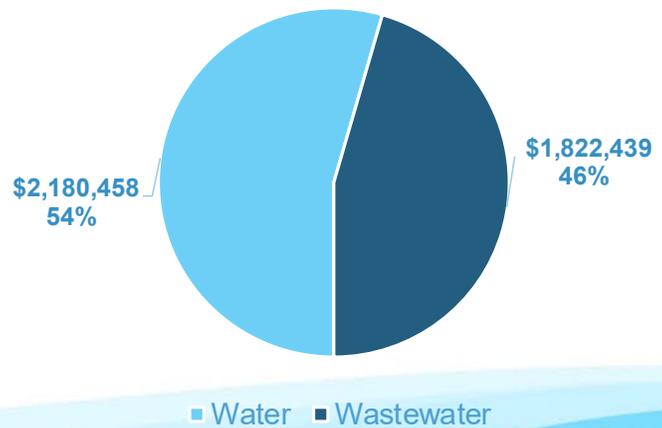


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CIP FY 25-29 (5 Year) Business Unit



CIP FY 25-34 (10 Year) Business Unit

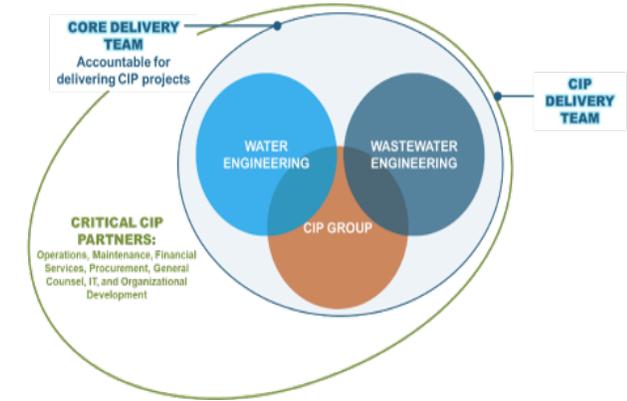


10 Year CIP



KEY TAKEAWAYS

- ◆ Five-year looking forward document with a 10-year outlook
- ◆ Discussion Draft # 1: Presented to CPC on October 17, 2023
- ◆ Public comment period on Draft 1 from Oct 18 - Nov 15, 2023
- ◆ Discussion Draft #2: Presented to CPC on Dec 12, 2023
- ◆ CPC recommended approval to the Board on Dec 12, 2023
- ◆ FY 25-29 CIP is in alignment with the GLWA's Financial Plan
- ◆ Opportunities for Stakeholders to provide input during development
- ◆ Projects from all areas of the organization to promote redundancy, resiliency, and health & safety
- ◆ Conformance with recommendations of master plans, meets regulatory and operational needs
- ◆ Ready to move to the next approval stage



QUESTIONS & THANK YOU



CIP Delivery Team

