

GLWA's 2023 – 2027 Capital Improvement Plan

Board Meeting

February 23, 2022, 2:00 p.m.

Jody Caldwell

Dima El-Gamal

Interim Chief Planning Officer Capital Improvement Program Director



FY 2023-2027 CIP SUMMARY

+18

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WATER

CIP Document	FY2022	FY2023	FY2024	FY2025	FY 2026	FY 2027	5-Year Total
Approved Water CIP FY 2022-2026	\$179,210	200,713	\$199,165	\$170,936	\$182,430	\$232,796	\$932,454
Draft Water CIP FY 2023-2027		\$194,376	\$225,436	\$221,616	\$174,681	\$149,539	\$965,648
Difference (\$)		(\$6)	\$26	\$51	(\$8)	(\$83)	\$33
Difference (%)		(3%)	13%	20%	(4%)	(36%)	4%
(Figures are shown in \$1,000's.)							

4%

WASTEWATER

CIP Document	FY2022	FY2023	FY2024	FY2025	FY 2026	FY 2027	5-Year Total
Approved Wastewater CIP FY 2022- 2026	\$106,050	\$123,190	\$160,940	\$173,024	\$175,200	\$210,615	\$738,403
Draft Wastewater CIP FY 2023-2027		\$125,932	\$162,313	\$184,523	\$157,689	\$131,307	\$761,764
Difference (\$)		\$3	\$1	\$11	(\$18)	(\$79)	\$23
Difference (%)		2%	1%	7%	(10%)	(38%)	3%
(Figures are shown in \$1,000's.)							

3%

38
New
Projects*

182
Projects*

+13

Projects

NOTE:

20 Closed

18 NEW PROJECTS FROM PROGRAM

IN ADDITION TO THE 181
PROJECTS, THERE ARE:
+7 RECLASSIFIED PROJECTS

+1 CANCELLED PROJECT

5-Year Total \$1.73 Billion

5-Year Annual Average

\$345 Million

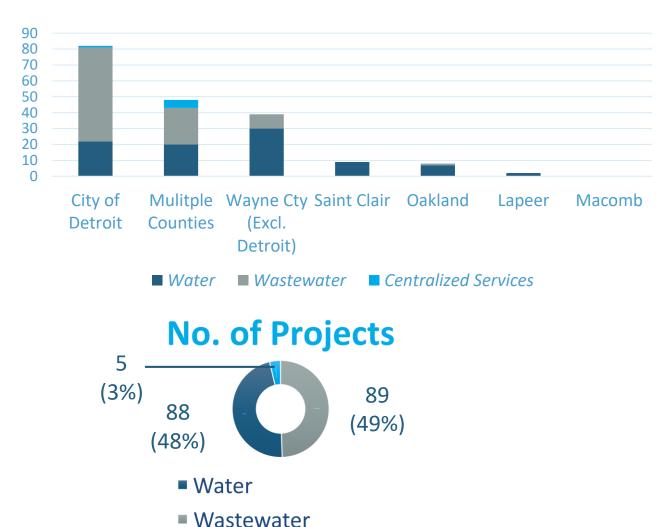
10-Year Total \$3.26 Billion

0-Year Annual Average \$326 Million



OVERVIEW - PROJECT QUANTITY, TYPE, & LOCATION

Projects	Water	Wastewater	Centralized Services
New	13	28	1
Status Changed to Active	11	16	
Status Changed to Pending Closeout	2	1	2
Status Changed to Anticipating Close FY23	10	10	
5 Yr. Total >\$5M	23	27	
5 Yr. Total >30M	10	8	
FY 23 Total >\$5M	12	8	
Water Master Plan Right Sizing	15		
Wastewater Master Plan		10	
Potential For Innovation	10	14	1
Redundancy and Reliability	42	40	1
Northeast Water Plant Repurposing	7		
Total Projects	88	89	5

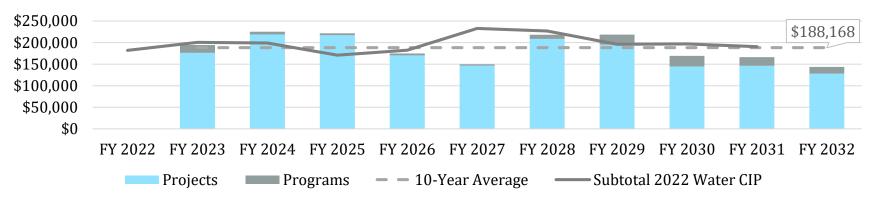


Centralized Services

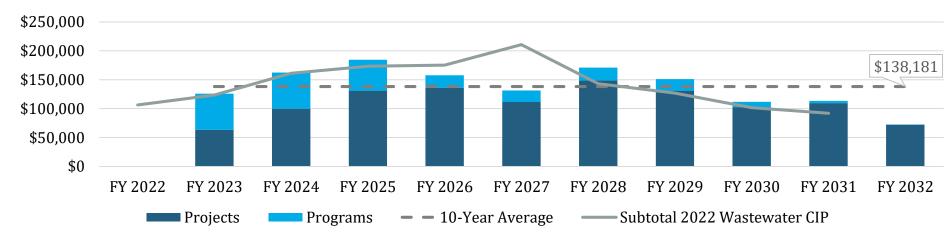


OVERVIEW - 10 YEAR CIP OUTLOOK





10-Year Wastewater CIP Outlook





LAKE HURON WTP FILTER INSTRUMENTATION AND RAW WATER FLOW METERING IMPROVEMENTS

- CIP 111006
- Committee Score 60.5
- Replace filter instrumentation (Valves, transmitters, flow switches, and sample lines)
- Investigate raw water venturi flow metering and replace if necessary
- Exceeded service life
- System no longer functioning as needed
- Total Project Budget \$25.9 Million
- Progressive Design Build March 2022 April 2028

WRRF AERATION BASINS 1 AND 2

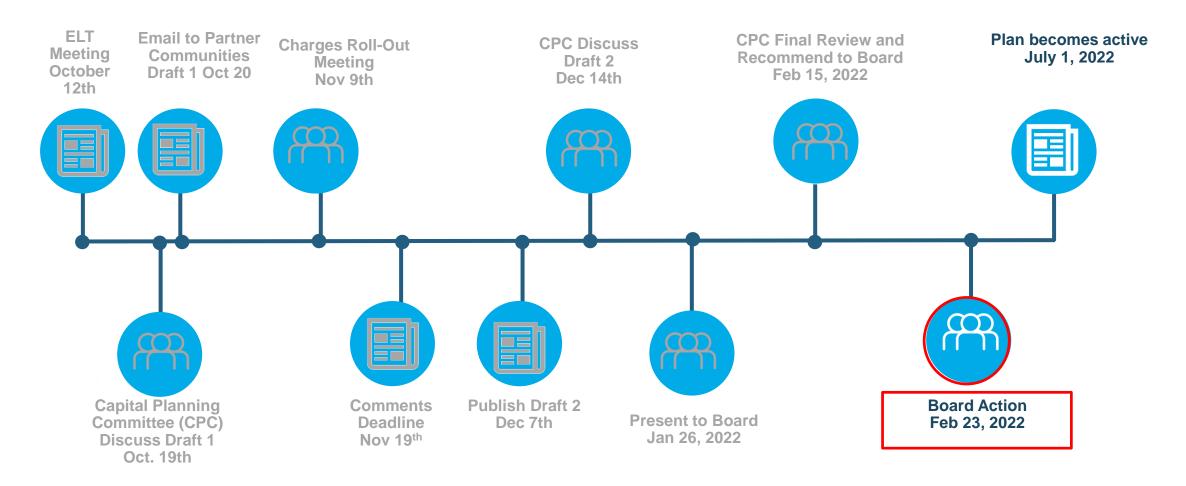
- CIP 212008
- Committee Score 76.3



- Rehab of Aeration Basins 1 & 2 and Replacement of Intermediate Lift Pumps (ILP) 1 &2. Conversion of Aeration Basins to incorporate biological Phosphorous Removal. Implementation of step feed to improve flow management
- ILPs Exceeded service life. Phosphorous removal to reduce oxygen and chemical usage. Conversion to step feed will improve hydraulics and increase flow through secondary treatment
- Total Project Budget \$73.8 Million
- Design Build October 2024 June 2030



FY23-27 CIP SCHEDULE & NEXT STEPS







THANK YOU AND QUESTIONS