



Financial Services Audit Committee Communication

Date: December 15, 2023

To: Great Lakes Water Authority Audit Committee

From: William Baker, Financial Management Professional, Construction Accounting & Reporting

Re: FY 2024 Q1 Construction Work-in-Progress Report through September 30, 2023 (Unaudited)

Background: The quarterly construction work-in-progress (CWIP) provides information and analysis related to the execution of the Great Lakes Water Authority capital improvement program (CIP).

Analysis: The attached documents summarize the FY 2024 Q1 CWIP positions and provides a detailed snapshot to inform decision makers and stakeholders.

Proposed Action: Receive and file this report.



**Construction Work-in-Progress Quarterly Report
(Unaudited)**

As of September 30, 2023

For questions, please contact:

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December 15, 2023

To Our Stakeholders:

The contents of this report represent the financial presentation of construction work-in-progress activity for the Great Lakes Water Authority (GLWA) as of September 30, 2023. The information in this report presents a detailed snapshot and is important as we track the execution of the FY 2024–2028 Capital Improvement Plan (CIP) and look to inform decision makers as we evaluate the draft FY 2025–2029 CIP.

As we continue to refine this report to better communicate pertinent information to inform decision makers and stakeholders, content and formatting may be changed. With the summary of active projects now regularly being reported to the Capital Planning Committee the project highlights previously being reported have been removed from this report.

Report Contents and Organization

Construction Work-in-Progress (CWIP) Appendices: Includes breakdown by jurisdiction which provides a summary of the planned and actual project activity by the jurisdictions identified within the FY 2024 – 2028 Board Approved CIP Plan, detailed CWIP rollforward, which lists all projects in the CIP along with financial activity. These tables may be used to revisit priorities, workload, and phasing. In addition, this section contains project amendment summaries which consider the award of CIP contracts and the related execution thereof may result in deviations from the amount and timing of project activity. Project amendments are prepared to fund the related increase or decrease with either an adjustment to Capital Reserve or Program / Allowance accounts to amend the board approved fiscal year CIP accordingly and to inform decision makers in the development of future Capital Improvement Plans.

Financial Information

All project amounts are unaudited. This means that direct contractor costs are generally included in these totals with most pay estimates entered through September 30, 2023. There may, however, be some pay estimates that lag. The totals do not include indirect overhead.

Budget vs. Plan

Generally, GLWA's CIP projects span two or more fiscal years. The GLWA Board of Directors adopts a biennial "budget" and a five-year capital improvement "plan".

- ✓ The adopted **budget** relates to operations and maintenance expense, annual fixed commitments such as debt service, and incremental adjustments to reserves. The budget provides authority to spend within defined amounts. The budget is also referred to as the "revenue requirement" for the utility.
- ✓ After contracts are awarded at amounts variant from the CIP plan and more reliable anticipated spend data becomes available, the amended budget for the current fiscal year may increase or decrease by way of "Capital Reserve" budget amendments.
- ✓ The five-year capital improvement **plan** is a rolling plan that is updated at an administrative tracking level as projects move from estimated to actual bid numbers. An updated mid-cycle CIP would be presented to the Board for approval if the prioritization strategy was revised and/or the plan was in need of material revisions.
- ✓ In addition, the Board of Directors adopts a capital spending ratio assumption (SRA) which allows the realities of capital program delivery to align with the financial plan. The SRA is an analytical approach to bridge the total dollar amount of projects in the CIP with what can realistically be spent due to limitations beyond GLWA's control and/or delayed for nonbudgetary reasons. Those limitations, whether financial or non-financial, necessitate the SRA for budgetary purposes, despite the prioritization established.

Executive Summary

The rate of spend is a key performance indicator. The development of the FY 2024-2028 and related CIP Plan for FY 2024 were based on anticipation of FY 2024 activity resulting in 100% of planned spend for the Water system and 100% of planned spend for the Wastewater system. In December 2023, the Audit Committee received a budget amendment report to amend the Adjusted Capital Spending Ratio (SRA) to 94.0% for the Water system and 82.9% for the Wastewater system.

The Water System spend for the period ending September 30, 2023, is 60.3% of the FY 2024 board approved CIP, 59.1% of the FY 2024 board approved CIP with project amendments, 60.3% of the FY 2024 Approved Capital Spending Rate Assumption (SRA) and 64.2% of the FY 2024 Adjusted Capital Spending Rate Assumption (SRA). Detailed analysis of the projects for which FY 2024 Board Approved CIP was amended from \$239.3M to \$244.5M is provided in the subsequent Project Amendment Summary appendix of this report.

The Wastewater System spend for the period ending September 30, 2023, is 50.3% of the FY 2024 board approved CIP, 48.0% of the FY 2024 board approved CIP with project amendments, 50.3% of the FY 2024 Approved Capital Spending Rate Assumption (SRA) and 60.6% of the FY 2024 Adjusted Capital Spending Rate Assumption (SRA). Detailed analysis of the projects for which FY 2024 Board Approved CIP was amended from \$199.0M to \$208.2M is provided in the subsequent Project Amendment Summary appendix of this report.

Water System Projects		FY 2023	FY 2023 Activity	FY 2023 Percentage	FY 2024	FY 2024 Prorated (Three Months)	FY 2024 Activity (Unaudited)	FY 2024 Percentage
(in millions)								
FY 2023 Board Approved CIP	\$	194.4	\$	196.3	101.0%			
FY 2023 Board Approved CIP With Project Amendments		199.5		196.3	98.4%			
FY 2023 Capital Spend Rate Assumption (SRA) - Approved		155.5		196.3	126.2%			
FY 2023 Capital Spend Rate Assumption (SRA) - Adjusted		208.0		196.3	94.4%			
FY 2024 Board Approved CIP					\$ 239.3	\$ 59.8	\$ 36.1	60.3%
FY 2024 Board Approved CIP With Project Amendments					244.5	61.1	36.1	59.1%
FY 2024 Capital Spend Rate Assumption (SRA) - Approved					239.3	59.8	36.1	60.3%
FY 2024 Capital Spend Rate Assumption (SRA) - Adjusted					224.9	56.2	36.1	64.2%
Wastewater System Projects		FY 2023	FY 2023 Activity	FY 2023 Percentage	FY 2024	FY 2024 Prorated (Three Months)	FY 2024 Activity (Unaudited)	FY 2024 Percentage
(in millions)								
FY 2023 Board Approved CIP	\$	125.9	\$	104.7	83.2%			
FY 2023 Board Approved CIP With Project Amendments		136.0		104.7	77.0%			
FY 2023 Capital Spend Rate Assumption (SRA) - Approved		94.4		104.7	110.9%			
FY 2023 Capital Spend Rate Assumption (SRA) - Adjusted		108.5		104.7	96.5%			
FY 2024 Board Approved CIP					\$ 199.0	\$ 49.8	\$ 25.0	50.3%
FY 2024 Board Approved CIP With Project Amendments					208.2	52.1	25.0	48.0%
FY 2024 Capital Spend Rate Assumption (SRA) - Approved					199.0	49.8	25.0	50.3%
FY 2024 Capital Spend Rate Assumption (SRA) - Adjusted					165.0	41.2	25.0	60.6%

Appendix A - Construction Work-in-Progress Rollforward Summaries by Jurisdiction

The purpose of the construction work-in-progress (CWIP) summary rollforward by jurisdiction is to provide a high-level overview of the financial status of the projects identified within the current board approved CIP by their jurisdiction. Within the FY 2024 – 2028 Board Approved CIP Plan, projects are identified and categorized as either City of Detroit, Wayne County - Outside Detroit, Lapeer County, Oakland County, Saint Clair County or Multiple Counties and reflected accordingly in this report.

\$407.1 million is in CWIP as of September 30, 2023 as shown for the Water System in A1 - Water - CWIP Rollforward by Jurisdiction

\$311.0 million is in CWIP as of September 30, 2023 as show for the Wastewater System in A2 - Wastewater - CWIP Rollforward by Jurisdiction

The order of these appendices on the subsequent pages are in ascending by jurisdiction alphabetically.

Construction Work-in-Progress Quarterly Report

As of September 30, 2023

Great Lakes Water Authority

A1 - Water System Construction Work-in-Progress (CWIP) FY 2024 Rollforward Summary By Jurisdiction

Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

Jurisdiction	Total Project Plan Estimate	CWIP Balance July 1, 2023	FY 2024 Board Approved CIP	FY 2024 Board Approved CIP With Project Amendments	FY 2024 Activity through September 30, 2023	CWIP Balance September 30, 2023
City of Detroit	\$ 638,107,597	\$ 106,551,466	\$ 40,250,349	\$ 40,250,349	\$ 7,964,121	\$ 114,515,587
Lapeer County	143,765,078	5,451,155	902,113	902,113	(109,021)	5,342,134
Mutiple Counties	806,054,995	94,920,092	103,273,696	106,691,396	12,067,684	106,932,156
Oakland County	526,779,159	101,425,208	35,809,598	35,122,298	10,399,297	111,824,505
Saint Clair County	357,322,501	10,362,274	16,975,870	17,974,870	2,300,520	12,662,794
Wayne County - Outside Detroit	1,271,890,345	55,533,758	42,047,936	43,573,336	3,480,304	55,857,133
Grand Total	\$ 3,743,919,674	\$ 374,243,953	\$ 239,259,562	\$ 244,514,362	\$ 36,102,906	\$ 407,134,309

Construction Work-in-Progress Quarterly Report

Great Lakes Water Authority

As of September 30, 2023

A2 - Wastewater System Construction Work-in-Progress (CWIP) FY 2024 Rollforward Summary By Jurisdiction

Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

Jurisdiction	Total Project Plan		CWIP Balance		FY 2024 Board		FY 2024	
	Estimate	July 1, 2023	Approved CIP	With Project	Approved CIP	Amendments	Activity through	CWIP Balance
							September 30, 2023	September 30, 2023
City of Detroit	\$ 2,431,678,757	\$ 209,701,082	\$ 129,495,209	\$ 136,932,909	\$	11,682,439	\$	218,784,438
Mutiple Counties	1,503,643,833	78,549,059	69,338,051	71,068,551		13,276,574		91,825,633
Wayne County - Outside Detroit	139,547,775	438,459	227,885	227,885		489		438,949
Grand Total	\$ 4,074,870,364	\$ 288,688,600	\$ 199,061,145	\$ 208,229,345	\$	24,959,503	\$	311,049,020

Appendix B - Construction Work-in-Progress Rollforwards

The purpose of the construction work-in-progress (CWIP) rollforward is to analyze the current year activity for each project in relation to the overall capital improvement program as well as the project portfolio overall.

As part of our project life cycle review the Construction Accounting team identifies when it is appropriate for projects to be capitalized. Projects are to be capitalized when they have been completed in totality or are inclusive of identifiable assets that have been placed in service. Capitalization of project cost occurred in the FY 2024 1st quarter for the following projects:

<u>Project</u>	<u>Contract</u>	<u>Description</u>
211002	PC-795	Pump Station No. 2 Pumping Improvements
113006	2002193	SW WTP Chlorine Scrubber

\$407.1 million is in CWIP as of September 30, 2023, as shown for the Water System in B1 - Water - Detailed CWIP Rollforward

\$311.0 million is in CWIP as of September 30, 2023, as shown for the Wastewater System in B2 - Wastewater - Detailed CWIP Rollforward

The order of these appendices on the subsequent pages are in ascending order by Project Category followed by CIP project number.

Construction Work-in-Progress Quarterly Report

As of September 30, 2023

Great Lakes Water Authority

B1 - Water System Construction Work-in-Progress (CWIP) FY 2024 Rollforward

Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

Project Category	Total Project Plan Estimate	FY 2024 Board Approved CIP	FY 2024 Board Approved CIP With Project Amendments	CWIP Balance July 1, 2023	FY 2024 Activity through September 30, 2023	FY 2024 Capitalizations And Other	CWIP Balance September 30, 2023	Life to Date Capitalizations And Other	Life to Date Activity Through September 30, 2023	Life to Date Activity / Total Project Plan Estimate
						Activity Through September 30, 2023		Activity		
Field Services - Water	605,748,307	121,118,374	121,491,874	119,596,676	19,246,742	-	138,843,417	98,677,166	237,520,583	39%
Programs - Water	563,390,417	21,421,981	24,839,681	50,259,310	3,224,918	55,620	53,428,608	32,388,171	85,816,778	15%
Security	5,258,442	-	-	-	-	-	-	10,357,757	10,357,757	197%
Systems Control Center	738,918,834	10,385,609	9,894,909	53,505,887	1,105,255	-	54,611,142	5,973,851	60,584,993	8%
Water Treatment Plants & Facilities	1,797,962,260	85,654,045	87,608,345	150,882,080	12,525,992	3,156,930	160,251,142	204,602,700	364,853,842	20%
Programs - Centralized Services	32,634,746	679,554	679,554	-	-	-	-	-	-	0%
Energy Mangement	6,667	-	-	-	-	-	-	-	-	0%
Grand Total	3,743,919,674	239,259,562	244,514,362	374,243,953	36,102,906	3,212,550	407,134,309	351,999,644	759,133,953	20%

Construction Work-in-Progress Quarterly Report

As of September 30, 2023

Great Lakes Water Authority

B2 - Wastewater System Construction Work-in-Progress (CWIP) FY 2024 Rollforward

Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

Project Category	Total Project Plan Estimate	FY 2024 Board Approved CIP	FY 2024 Board Approved CIP With Project Amendments	CWIP Balance July 1, 2023	FY 2024 Activity through September 30, 2023	FY 2024 Capitalizations And Other Activity Through September 30, 2023	CWIP Balance September 30, 2023	Life to Date Capitalizations And Other Activity	Life to Date Activity through September 30, 2023	Life to Date Activity / Total Project Plan Estimate
CSO Facilities	223,462,073	9,578,136	9,578,136	5,277,057	2,368,174	-	7,645,231	737,296	8,382,527	4%
Facilities	1,123,056	-	-	-	-	-	-	1,123,056	1,123,056	100%
Field Services - Wastewater	203,493,821	19,775,025	19,775,025	53,673,024	1,618,724	-	55,291,748	-	55,291,748	27%
Programs	1,598,544,588	92,767,210	94,497,710	95,169,871	15,820,232	-	110,990,104	46,853,855	157,843,959	10%
Programs - Water	-	-	-	-	-	-	-	83,000	83,000	0%
Security	2,362,970	-	-	-	-	-	-	3,200,851	3,200,851	135%
Systems Control Center	591,551,929	24,295,387	24,295,387	56,087,591	915,779	-	57,003,370	6,103,686	63,107,056	11%
Water Resource Recovery Facility	1,454,331,929	52,645,387	60,083,087	78,481,057	4,236,594	2,599,083	80,118,568	169,516,960	249,635,527	17%
Grand Total	4,074,870,364	199,061,145	208,229,345	288,688,600	24,959,503	2,599,083	311,049,020	227,618,704	538,667,724	13%

Construction Work-in-Progress Quarterly Report

As of September 30, 2023

Great Lakes Water Authority
B3 - Water System Construction Work-in-Progress (CWIP) FY 2024 Rollforward
Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

Project Category	Project	Project Name	Total Project Plan Estimate	FY 2024 Board Approved CIP	FY 2024 Board Approved With Project Amendments	CWIP Balance July 1, 2023	FY 2024 Activity through September 30, 2023	FY 2024 Capitalizations And Other Activity Through September 30, 2023	CWIP Balance September 30, 2023	Life to Date Capitalizations And Other Activity	Life to Date Activity Through September 30, 2023	Life to Date Activity / Total Project Plan Estimate
				Approved CIP								
Field Services - Water	122003	New Waterworks Park to Northeast Transmission Main	38,764,909	144,420	144,420	-	-	-	-	29,790,267	29,790,267	77%
	122004	96-inch Main Relocation, Isolation Valves Installations, and New Parallel Main	235,133,772	85,217,371	85,217,371	50,857,698	9,537,789	-	60,395,487	148,741	60,544,228	26%
	122005	Replacement Schoolcraft Watermain	18,645,713	-	-	3,396,485	(98,957)	-	3,297,529	13,656,834	16,954,363	91%
	122006	Transmission System Water Main Work-Wick Road Parallel Water Main	26,261,331	-	373,500	4,301,439	144,532	-	4,445,971	20,751,264	25,197,234	96%
	122007	Design and Construction of a new Newburgh Road 24" Main along Newburgh Road between Ch	26,209,246	-	-	-	-	-	-	-	-	0%
	122011	Park-Merriman Water Main-Final Phase	10,202,576	-	-	-	-	-	-	6,832,945	6,832,945	67%
	122012	36-inch Water Main in Telegraph Road	9,986,284	-	-	-	-	-	-	9,986,284	9,986,284	100%
	122013	Lyon Township Transmission Main Extension Project	113,979,416	27,027,177	27,027,177	57,111,557	9,228,540	-	66,340,097	17,510,830	83,850,927	74%
	122016	Downriver Transmission Loop	69,991,506	5,308,831	5,308,831	2,831,943	119,764	-	2,951,707	-	2,951,707	4%
	122017	7 Mile/Nevada Transmission Main Rehab and Carrie/Nevada Flow Control Station	13,118,300	3,389,881	3,389,881	-	315,073	-	315,073	-	315,073	2%
	122018	Garland, Hurlbut, Bewick Water Transmission System Rehabilitation	3,319,270	30,693	30,693	-	-	-	-	-	-	0%
	122019	Jefferson Main Replacement	40,135,983	-	-	1,097,554	-	-	1,097,554	-	1,097,554	3%
	Field Services - Water Total		605,748,307	121,118,374	121,491,874	119,596,676	19,246,742	-	138,843,417	98,677,166	237,520,583	39%
Programs - Water	170102	Water Production Plant Flow Metering Improvements at NE, SP & SW WTP	373,640	-	-	-	-	-	-	373,640	373,640	100%
	170109	Inspection of Raw Water Intakes and Tunnels	1,787,968	-	-	-	-	-	-	-	-	0%
	170300	Water Treatment Plant Automation Program	23,317,393	-	-	-	-	-	-	-	-	0%
	170301	Water Plant Automation	1,755,142	-	-	-	-	-	-	-	-	0%
	170302	SW WTP SCADA Improvements	8,284,006	4,731,318	4,731,318	5,541,977	691,778	-	6,233,755	-	6,233,755	75%
	170303	WWP WTP Power Monitoring Installation	1,862,773	-	-	-	-	-	-	1,811,356	1,811,356	97%
	170304	WWP WTP SCADA Upgrade	500,906	-	-	654,940	(3,956)	-	650,984	-	650,984	130%
	170305	WWP SCADA Network Upgrade	7,542,009	-	-	-	-	-	-	-	-	0%
	170306	SPW SCADA PLC Network Upgrade	6,780,215	-	-	-	-	-	-	-	-	0%
	170400	Water Transmission Improvement Program	32,174,788	-	-	-	-	-	-	-	-	0%
	170401	Emergency Bypass Around Ypsilanti Station	2,633,282	-	-	-	-	-	-	2,633,282	2,633,282	100%
	170500	Transmission System Valve Assessment and Rehabilitation/Replacement Program	59,296,473	1,616,517	(83)	-	-	-	-	-	-	0%
	170502	Transmission System Valve Assessment and Rehabilitation/Replacement A	5,608,711	-	-	-	-	-	-	7,689,584	7,689,584	137%
	170503	Transmission System Valve Assessment and Rehabilitation/Replacement B	14,966,270	919,721	3,789,621	13,180,210	649,437	-	13,829,648	-	13,829,648	92%
	170504	Repair of WTM, Valves, & Priority Repair	18,400,000	549,168	2,713,568	9,219,808	461,439	-	9,681,247	-	9,681,247	53%
	170600	Water Transmission Main Asset Assessment Program	80,112,552	30,935	30,935	-	-	-	-	-	-	0%
	170601	Linear System Integrity Program	47,607,411	111,943	111,943	-	-	-	-	-	-	0%
	170801	Reservoir Inspection, Design and Rehabilitation	25,385,252	2,570,361	2,570,361	14,494,537	1,265,629	55,620	15,704,546	8,822,454	24,526,999	97%
	170802	Reservoir Inspection, Design	47,175,002	9,292,018	9,292,018	2,460,276	153,390	-	2,613,666	-	2,613,666	6%
	170803	Reservoir Inspection, Design, and Construction Mangement Services Phase III	94,432,172	-	-	-	-	-	-	-	-	0%
	170900	Suburban Water Meter Pit Rehabilitation and Meter Replacement Program	33,108,255	-	-	-	-	-	-	-	-	0%
	170901	Suburban Water Meter Pit Rehabilitation and Meter Replacement	12,410,811	-	-	4,707,563	-	-	4,707,563	7,703,013	12,410,576	100%
	170902	Brownstown Meter Pit Rehabilitation	175,992	-	-	-	-	-	-	-	-	0%
	170904	Phase II Wholesale Water Meter Pit Rehab	15,686,352	1,600,000	1,600,000	-	7,200	-	7,200	-	7,200	0%
	171500	Roof Replacement - Var Facilities Program	15,948,441	-	-	-	-	-	-	-	-	0%
	171501	Roof Replacements - Var Facilities Program	3,354,843	-	-	-	-	-	-	3,354,843	3,354,843	100%
	171502	Lake Huron and Southwest Roof Replacement	2,709,759	-	-	-	-	-	-	-	-	0%
Programs - Water Total			563,390,417	21,421,981	24,839,681	50,259,310	3,224,918	55,620	53,428,608	32,388,171	85,816,778	15%
Security	341001	Security Infrastructure Improvements	5,258,442	-	-	-	-	-	-	10,357,757	10,357,757	197%
Security Total			5,258,442	-	-	-	-	-	-	10,357,757	10,357,757	197%
Systems Control Center	132003	Isolation Gate Valves for Line Pumps for West Service Center Pumping Station	1,742,479	-	-	-	-	-	-	1,742,479	1,742,479	100%
	132006	Pressure and Control Improvements at the Electric, Ford Road, Michigan, and West Chica	3,227,776	-	-	-	-	-	-	3,226,045	3,226,045	100%
	132007	Energy Management: Freeze Protection Pump Installation at Imlay Pumping Station	5,754,204	902,113	902,113	5,180,944	(109,021)	-	5,071,923	-	5,071,923	88%
	132010	West Service Center/Duval Rd Division Valve Upgrades	47,770,838	4,758,831	4,071,531	42,921,051	749,592	-	43,670,643	-	43,670,643	91%
	132012	Ypsilanti PS Improvements	43,394,088	701,075	897,675	2,443,545	43,301	-	2,486,846	-	2,486,846	6%
	132014	Adams Road Booster Pumping Improvements	61,777,803	-	-	102,450	-	-	102,450	-	102,450	0%
	132015	Newburgh BPS	46,396,137	-	-	1,232,925	218	-	1,233,143	30,000	1,263,143	3%
	132016	North Service Center BPS Improvements	239,583,663	4,023,590	4,023,590	1,195,463	421,165	-	1,616,628	-	1,616,628	1%
	132018	Schoolcraft BPS	24,690,695	-	-	-	-	-	-	-	-	0%
	132019	Wick Road BPS - Switchgear	24,788,064	-	-	64,610	-	-	64,610	-	64,610	0%
	132020	Franklin BPS - Isolation Gate Valves	60,919,247	-	-	94,688	-	-	94,688	-	94,688	0%
	132021	Imlay BPS - Replace VFDs, Pumps & Motors	138,010,874	-	-	270,211	-	-	270,211	-	270,211	0%
	132022	Joy Road BPS - Replace Reservoir Pumps	39,857,253	-	-	-	-	-	-	-	-	0%
	132025	Northwest Booster Station Yard Piping Improvements	19,335	-	-	-	-	-	-	-	-	0%
	132026	Franklin Pumping Station Valve Replacement	986,376	-	-	-	-	-	-	975,327	975,327	99%

Construction Work-in-Progress Quarterly Report

As of September 30, 2023

Great Lakes Water Authority
B3 - Water System Construction Work-in-Progress (CWIP) FY 2024 Rollforward
Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

Project Category	Project	Project Name	Total Project Plan Estimate	FY 2024 Board Approved CIP	FY 2024 Board With Project Amendments	CWIP Balance July 1, 2023	FY 2024 Activity through September 30, 2023	FY 2024	CWIP Balance September 30, 2023	Life to Date	Life to Date Activity Through September 30, 2023	Life to Date
								Capitalizations And Other Activity Through September 30, 2023		Capitalizations And Other Activity		Life to Date Activity / Total Project Plan Estimate
Systems Control Center Total			738,918,834	10,385,609	9,894,909	53,505,887	1,105,255	-	54,611,142	5,973,851	60,584,993	8%
Water Treatment Plants & Facilities	111001	Energy Management: Lake Huron Water Treatment Plant Low Lift Pumping Improvements	140,410,608	1,553,101	1,553,101	3,536,463	125,558	-	3,662,020	-	3,662,020	3%
	111002	LHWTP Backflow Replacement	8,717,768	-	-	-	-	-	-	8,717,768	8,717,768	100%
	111004	Electrical Tunnel Rehabilitation at Lake Huron WTP	3,806,475	-	-	-	-	-	-	3,892,299	3,892,299	102%
		Water Supply Pumping Assessment Study	85,824	-	-	-	-	-	-	-	-	0%
	111006	Replacement of Filter Instrumentation and Raw Water Flow Metering Improvements at Lake	40,356,342	1,026,425	2,025,425	1,381,273	459,295	-	1,840,568	-	1,840,568	5%
	111007	Lake Huron WTP-Raw Sludge Clarifier and Raw Sludge Pumping System Improvements	8,867,103	-	-	-	-	-	-	8,867,103	8,867,103	100%
	111008	LHWTP Architectural Programming - Lab	782,112	-	-	-	-	-	-	-	-	0%
	111009	Lake Huron WTP-35 MGD HLP, Flow Meters	31,003,499	12,609,506	12,609,506	4,699,252	1,631,396	-	6,330,648	-	6,330,648	20%
	111010	Lake Huron Water Treatment Plant -Filtration and Pretreatment Improvements	58,638,596	-	-	-	-	-	-	-	-	0%
	111011	Lake Huron WTP Pilot Plant	3,267,770	-	-	-	-	-	-	3,076,105	3,076,105	94%
	111012	LHWTP-Flocculation Improvements	51,331,404	1,786,838	1,786,838	741,978	84,271	-	826,249	-	826,249	2%
	111013	LH WTP Fireloop & Plant Water Improvements	10,055,000	-	-	3,308	-	-	3,308	-	3,308	0%
	112001	Yard Piping Replacement at Northeast Water Treatment Plant	0	-	-	-	-	-	-	-	-	0%
	112002	Low Lift Pumping Plant Caisson Rehabilitation at Northeast WTP	1,169,962	-	-	-	-	-	-	1,169,962	1,169,962	100%
	112003	NE WTP High Lift Pumping Electrical	171,678,100	-	-	557,608	123	-	557,731	-	557,731	0%
	112005	Northeast Water Treatment Plant - Replacement of Covers for Process Water Conduits	937,879	-	-	-	-	-	-	937,879	937,879	100%
	112006	Northeast Water Treatment Plant Flocculator Replacements	13,446,475	2,637,134	2,637,134	4,066,122	490,984	-	4,557,106	-	4,557,106	34%
	112007	NE WTP Structural Repair of Slab and Bea	6,685,115	140,039	140,039	235,924	-	-	235,924	-	235,924	4%
	113001	Southwest Water Treatment Plant, Sludge Treatment & Waste Wash water Treatment Facilit	23,765	-	-	-	-	-	-	171,079	171,079	720%
	113002	High Lift Pump Discharge Valve Actuators Replacement at Southwest WTP	5,798,925	-	-	-	-	-	-	5,798,535	5,798,535	100%
	113003	Replacement of Butterfly Valves	162,109,919	-	-	-	-	-	-	-	-	0%
	113006	SW WTP Chloring Scrubber	7,326,664	12,674	12,674	3,156,493	436	3,156,930	-	6,108,070	6,108,070	83%
	113007	Architectural and Building Mechanical	8,640,647	-	-	-	-	-	-	-	-	0%
	113009	SW WTP Flight and Chain Upgrades	5,127,222	1,454,020	1,454,020	20,182	-	-	20,182	-	20,182	0%
	114001	Springwells Water Treatment Plant 1958 Filter Rehabilitation and Auxiliary Facilities	99,764,892	-	-	-	-	-	-	99,764,892	99,764,892	100%
	114002	Springwells Water Treatment Plant - Low Lift and High Lift Pump Station	315,711,970	22,554,711	22,554,211	26,617,698	2,053,261	-	28,670,959	-	28,670,959	9%
	114003	Water Production Flow Metering Improvements at NE, SW, and SPW WTP	8,208,286	-	-	-	-	-	-	8,167,884	8,167,884	100%
	114005	Springwells WTP Admin Building Improvements	7,138,425	-	-	1,320,522	-	-	1,320,522	-	1,320,522	18%
	114008	1930 Sedimentation Basin Sluice Gates, Guides & Hoists Improvements at Springwells WTP	14,105,567	-	-	404,500	41,900	-	446,399	11,738,479	12,184,878	86%
	114010	Yard Piping Improvements	218,637,731	-	-	1,807,946	-	-	1,807,946	-	1,807,946	1%
	114011	Steam, Condensate Return, and Compressed Air Piping Improvements at Springwells WTP	28,264,192	1,281,100	1,281,100	1,328,244	418,586	-	1,746,830	24,356,450	26,103,279	92%
	114012	Springwells Water Treatment Plant 1930 Filter Building-Roof Replacement	3,911,148	-	-	-	-	-	-	3,911,148	3,911,148	100%
	114013	Springwells Reservoir Fill Line Improvements	4,731,850	-	-	-	-	-	-	4,706,751	4,706,751	99%
	114016	Springwells Water Treatment Plant 1958 Settled Water Conduits Concrete Pavement Replacement	1,567,531	-	-	-	-	-	-	1,566,470	1,566,470	100%
	114017	Springwells Water Treatment Plant Flocculator Drive Replacement	27,798,446	6,004,206	6,960,006	1,065,249	65,485	-	1,130,734	-	1,130,734	4%
	114018	Springwells Water Treatment Plant - Service Building Electrical Substation and Miscellaneous Improvements	2,340,568	-	-	-	-	-	-	-	-	0%
115001	Yard Piping, Valves and Venturi Meters Replacement at Water Works Park	56,073,058	10,657,254	10,657,254	29,220,784	2,629,984	-	31,850,768	-	31,850,768	57%	
115003	Comprehensive Condition Assessment at Waterworks Park WTP	514,004	-	-	-	-	-	-	-	-	0%	
115004	Water Works Park WTP Chlorine System Upgrade	6,966,596	-	-	-	-	-	-	6,966,596	6,966,596	100%	
115005	WWP WTP Building Ventilation Improvements	16,541,211	5,579,579	5,579,579	5,941,878	3,018,986	-	8,960,864	-	8,960,864	54%	
115006	Water Works Park Site/Civil Improvements	5,895,650	-	-	-	-	-	-	-	-	0%	
115007	Water Works Park High Lift Pumping Station Modernization	115,089,667	-	-	-	-	-	-	-	-	0%	
115009	Water Works Park Sedimentation Basins Structural Upgrades	16,845,902	-	-	-	-	-	-	-	-	0%	
116002	Pennsylvania, Springwells and Northeast Raw Water Supply Tunnel Improvements based on	99,061,811	15,334,209	15,334,209	64,619,456	1,452,049	-	66,071,504	4,685,231	70,756,736	71%	
116005	Belle Isle Seawall Rehabilitation	2,294,679	737,140	737,140	157,201	53,678	-	210,879	-	210,879	9%	
116006	Belle Isle Intake System Rehabilitation and Improvements	2,221,841	-	-	-	-	-	-	-	-	0%	
116007	System Electrical Power Improvements	4,010,060	2,286,109	2,286,109	-	-	-	-	-	-	0%	
Water Treatment Plants & Facilities Total			1,797,962,260	85,654,045	87,608,345	150,882,080	12,525,992	3,156,930	160,251,142	204,602,700	364,853,842	20%

Construction Work-in-Progress Quarterly Report

As of September 30, 2023

Great Lakes Water Authority
 B3 - Water System Construction Work-in-Progress (CWIP) FY 2024 Rollforward
 Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

Project Category	Project	Project Name	Total Project Plan Estimate	FY 2024 Board Approved CIP	FY 2024 Board Approved CIP With Project Amendments	CWIP Balance July 1, 2023	FY 2024 Activity through September 30, 2023	FY 2024 Capitalizations And Other Activity Through September 30, 2023	CWIP Balance September 30, 2023	Life to Date Capitalizations And Other Activity	Life to Date Activity Through September 30, 2023	Life to Date Activity / Total Project Plan Estimate
Programs - Centralized Services	380700	As-needed Engineering Services for Concrete Testing, Geotechnical Soil Borings, other Testing Services, and Related Services Allowance	10,820	-	-	-	-	-	-	-	-	0%
	381000	Energy Management: Electric Metering Improvement Program	5,125,444	679,554	679,554	-	-	-	-	-	-	0%
	381001		2,498,482	-	-	-	-	-	-	-	-	0%
	383300	Masonry Replacement and Rehabilitation Program	25,000,001	-	-	-	-	-	-	-	-	0%
Programs - Centralized Services Total			32,634,746	679,554	679,554	-	-	-	-	-	-	0%
Energy Mangement	351001	Water Facility Lighting Renovations	6,667	-	-	-	-	-	-	-	-	0%
Energy Mangement Total			6,667	-	-	-	-	-	-	-	-	0%
Grand Total			3,743,919,674	239,259,562	244,514,362	374,243,953	36,102,906	3,212,550	407,134,309	351,999,644	759,133,953	20%

Construction Work-in-Progress Quarterly Report

As of September 30, 2023

Great Lakes Water Authority

B4 - Wastewater System Construction Work-in-Progress (CWIP) FY 2024 Rollforward

Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

Project Category	Project	Project Name	Total Project Plan Estimate	FY 2024 Board Approved CIP			Activity through September 30, 2023	FY 2024 Capitalizations And Other		CWIP Balance September 30, 2023	Life to Date Capitalizations And Other Activity	Life to Date Activity through September 30, 2023	Life to Date Activity / Total Project Plan Estimate
				FY 2024 Board Approved CIP	With Project Amendments	CWIP Balance July 1, 2023		Activity Through September 30, 2023					
CSO Facilities	270001	Pilot CSO Netting Facility	37,884,356	-	-	2,207	7,373	-	-	9,581	-	9,581	0%
	270002	Meldrum Sewer Diversion and VR-15 Improvements	6,400,507	-	-	-	-	-	-	-	-	-	0%
	270003	Long Term CSO Control Plan	12,058,497	2,268,939	2,268,939	-	159,002	-	159,002	-	-	159,002	1%
	270004	Oakwood Lieb CSO Facility Improvement	42,595,642	2,284,906	2,284,906	2,070,852	547,366	-	2,618,218	-	-	2,618,218	6%
	270006	Control System Upgrades - Baby Creek/Belle	20,538,416	1,477,523	1,477,523	1,103,959	496,371	-	1,600,329	-	-	1,600,329	8%
	270007	Disinfection System Improvements at CSO	8,345,855	-	-	1,247	8,114	-	9,361	-	-	9,361	0%
	270008	Flushing System Improvements at Conner Creek and St. Aubin CSO Facilities	7,070,077	-	-	-	-	-	-	-	-	-	0%
	270009	Site Improvements at St. Aubin, Belle Isle, and Baby Creek CSO Facilities	1,389,999	-	-	-	-	-	-	-	-	-	0%
	270010	HVAC Improvements at Puritan Fenkell and Seven Mile CSO Facilities	1,579,434	15,754	15,754	8,756	7,776	-	16,532	-	-	16,532	1%
	270011	HVAC Improvements at Conner Creek and Belle Isle CSO Facilities	418,049	-	-	-	-	-	-	-	-	-	0%
	270012	Control System Upgrades at Conner Creek, Oakwood, and Puritan Fenkell CSO Facilities	5,974,808	-	-	-	-	-	-	-	-	-	0%
	270013	Facility Improvements at Puritan Fenkell and Seven Mile CSO Facilities	902,132	-	-	-	-	-	-	-	-	-	0%
	270014	Convert to Complete Capture Basin CSO Fa	4,482,478	-	-	-	-	-	-	-	-	-	0%
	273001	Hubbell Southfield CSO Facility Improvement	54,621,097	227,885	227,885	438,459	489	-	438,949	-	-	438,949	1%
	273002	CSO Hubbell Southfield VR-8 Gate Improvements	1,785,839	-	-	-	-	-	-	-	-	-	0%
CSO Facilities Total	276002	Replacement Make-up Air Unit at CON	357,212	-	-	611	-	-	611	347,996	-	348,607	98%
	277001	Baby Creek Outfall Improvements Project	16,312,714	3,303,128	3,303,128	1,650,965	1,141,682	-	2,792,647	389,300	-	3,181,947	20%
	277002	Baby Creek CSO Facility Influent Flushing System	744,959	-	-	-	-	-	-	-	-	-	0%
			223,462,073	9,578,136	9,578,136	5,277,057	2,368,174	-	7,645,231	737,296	-	8,382,527	4%
Facilities	331002	Roofing Systems Replacement at GLWA Wastewater Treatment Plant, CSO Retention Treatment Basins (RTB) and Screening Disinfection Facilities (SDF)	1,123,056	-	-	-	-	-	-	1,123,056	-	1,123,056	100%
Facilities Total			1,123,056	-	-	-	-	-	-	1,123,056	-	1,123,056	100%
Field Services - Wastewater	222001	Intercommunity Relief Sewer Modifications in Detroit Oakwood District	81,428,171	-	-	2,609,882	22,063	-	2,631,945	-	-	2,631,945	3%
	222002	Detroit River Interceptor Evaluation and Rehabilitation	117,561,404	17,254,477	17,254,477	51,063,141	1,596,661	-	52,659,803	-	-	52,659,803	45%
	222004	Collection System Valve Remote Operation Structures Improvements	4,246	-	-	-	-	-	-	-	-	-	0%
	222008	North Interceptor East Arm (NIEA)	4,500,000	2,520,548	2,520,548	-	-	-	-	-	-	-	0%
Field Services - Wastewater Total			203,493,821	19,775,025	19,775,025	53,673,024	1,618,724	-	55,291,748	-	-	55,291,748	27%
Programs	260200	Sewer and Interceptor Evaluation and Rehabilitation Program	9,171,910	17,224	17,224	-	-	-	-	-	-	-	0%
	260201	Conveyance System Interceptor Rehab	41,527,234	1,107,291	1,107,291	20,225,624	92,326	-	20,317,950	18,542,127	-	38,860,077	94%
	260202	Conveyance System Interceptor Rehab	4,457	-	-	1,904	-	-	1,904	-	-	1,904	43%
	260204	Energy Services for Rehabilitation of Conveyance Sewer System	57,525,481	16,922,618	17,695,018	10,043,555	2,338,161	-	12,381,716	-	-	12,381,716	22%
	260205	NWI Outfall Rehabilitation	7,734,426	4,232,450	4,232,450	2,303,696	1,471,870	-	3,775,566	-	-	3,775,566	49%
	260206	Conveyance System Rehabilitation - Interceptors	23,141,361	8,166,750	8,166,750	1,197,436	869,312	-	2,066,748	-	-	2,066,748	9%
	260207	Rehabilitation of Woodward Sewer System	23,229,319	6,721,768	7,216,568	12,008,292	2,879,569	-	14,887,860	-	-	14,887,860	64%
	260208	Linwood/Lonyo/Ashland/2nd Ave/Shiawassee	36,754	-	-	-	-	-	-	-	-	-	0%
	260209	Sewer Repair Contract - As Needed	14,965,035	7,479,694	7,479,694	2,098,083	592,401	-	2,690,484	-	-	2,690,484	18%
	260210	Linwood/Lonyo/Ashland/2nd Ave/Shiawassee	36,341,245	1,521,537	1,521,537	320,171	364,945	-	685,116	-	-	685,116	2%
	260500	CSO Outfall Rehab	7,636,110	-	-	-	-	-	-	-	-	-	0%
	260504	Rehabilitation of Outfalls - Phase II	4,923,589	-	-	-	-	-	-	4,923,589	-	4,923,589	100%
	260505	Rehabilitation of Outfalls - Phase IV	5,709,224	-	-	-	-	-	-	5,709,659	-	5,709,659	100%
	260506	Pilot Regulator Orifice Expansion	(78,641)	-	-	-	-	-	-	-	-	-	0%
	260508	B-39 Outfall Rehab	10,705,611	4,377,004	4,377,004	6,031,942	1,363,641	-	7,395,583	-	-	7,395,583	69%
	260509	B-40 Outfall Rehab	112,591	-	-	112,591	-	-	112,591	-	-	112,591	100%
	260510	Conveyance System Rehabilitation - Outfalls	24,947,182	4,826,857	4,826,857	1,871,607	292,352	-	2,163,959	-	-	2,163,959	9%
	260600	CSO Facilities Improvements	1,021,441,117	2,120,493	2,120,493	-	-	-	-	-	-	-	0%
	260601	Oakwood Drain Valve Improvements	804,574	-	-	-	-	-	-	804,574	-	804,574	100%
	260602	CSO Fire Alarm System Improvements	1,017,691	-	-	-	-	-	-	997,619	-	997,619	98%
	260603	Conner Creek CSO Basin Rehab	7,982,176	-	-	-	-	-	-	7,675,407	-	7,675,407	96%
	260606	Puritan Fenkell Roof Replacement	346,540	-	-	-	-	-	-	346,540	-	346,540	100%
	260607	Lieb SDF Electrical Improvements	1,032,508	-	-	-	-	-	-	1,032,508	-	1,032,508	100%
	260608	Seven Mile RTB - Roof Replacement	496,699	-	-	-	-	-	-	496,699	-	496,699	100%
	260609	Seven Mile RTB - Parking Lot / Sitework	429,557	-	-	-	-	-	-	429,557	-	429,557	100%
	260610	Baby Creek MAU Replacement	275,151	-	-	-	-	-	-	275,151	-	275,151	100%
	260611	HVAC Improvements At Lieb SDF	412,590	-	-	-	-	-	-	412,590	-	412,590	100%
	260613	Baby Creek HVAC Improvements	545,401	-	-	-	-	-	-	545,401	-	545,401	100%
	260614	CSO Facilities Structural Improvements	15,427,766	2,346,731	2,810,031	12,303,538	1,057,236	-	13,360,774	-	-	13,360,774	87%
	260615	PF & Lieb CSO Facilities Site & Drainage Improvements	457,982	-	-	-	-	-	-	582,444	-	582,444	127%
	260616	Baby Creek SCO Anchor & Wedge Improvements	771,846	-	-	-	-	-	-	770,114	-	770,114	100%
	260617	St. Aubin Chemical Disinfection Improvements	417,052	-	-	-	-	-	-	-	-	-	0%
	260618	Oakwood HVAC Improvements	6,933,584	-	-	5,620,944	28,148	-	5,649,092	-	-	5,649,092	81%
	260619	Control System Upgrade At St. Aubin, Lieb and 7 Mile	7,972,657	3,868,475	3,868,475	1,050,133	85,290	-	1,135,423	-	-	1,135,423	14%
	260620	Baby Creek Roof Replacement	984,552	-	-	-	-	-	-	984,552	-	984,552	100%
	260621	Connor Creek Berm Improvements	2,255,349	-	-	4,749	(2,374)	-	2,374	2,244,862	-	2,247,237	100%

Construction Work-in-Progress Quarterly Report

As of September 30, 2023

Great Lakes Water Authority

B4 - Wastewater System Construction Work-in-Progress (CWIP) FY 2024 Rollforward

Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

FY 2024 Board							FY 2024				Life to Date		Life to Date	
			FY 2024 Board	Approved CIP	With Project	CWIP Balance	FY 2024	Capitalizations	And Other	Life to Date	Capitalizations	Life to Date	Activity /	
Project Category	Project	Project Name	Total Project Plan	Approved CIP	Amendments	July 1, 2023	Activity through	Activity Through	CWIP Balance	Activity through	And Other	Activity through	Total Project	
Programs			Estimate	September 30, 2023			September 30, 2023	September 30, 2023	September 30, 2023	September 30, 2023	Activity	September 30, 2023	Plan Estimate	
	260622	CSO Facilities Emergency Generator Improvements	1,376,296	-	-	978,411	702	-	979,113	-	-	979,113	71%	
	260623	Baby Creek Screen Rehabilitation	2,393,230	1,048,740	1,048,740	1,447,517	107,159	-	1,554,675	-	-	1,554,675	65%	
	260700	Sewer System Infrastructure Improvements & Pumping Stations	1,025,068	49,456	49,456	-	-	-	-	-	-	-	0%	
	260701	Conveyance System Infrastructure Improvements	58,453,030	19,310,035	19,310,035	13,177,646	3,979,941	-	17,157,587	-	-	17,157,587	29%	
	260702	Pump Station Assets Updates	10,065,000	-	-	-	-	-	-	-	-	-	0%	
	260800	WRRF Roof Replacement Program	14,833,388	-	-	-	-	-	-	-	-	-	0%	
	260801	WRRF Sludge Pump Station #3 Roof Replacement	80,463	-	-	-	-	-	-	80,463	-	80,463	100%	
	260802	2022 WRRF Roof Improvements Project	5,071,571	2,349,455	2,349,455	302,060	76,978	-	379,038	-	-	379,038	7%	
	260900	WRRF Facility Optimization Program	85,771,290	52,706	52,706	-	-	-	-	-	-	-	0%	
	260901	Rehab. Hazmat Facility at WRRF	3,506,846	1,409,318	1,409,318	329,597	39,737	-	369,334	-	-	369,334	11%	
	260902	WRRF Renovation of 4th Floor	3,719,708	1,043,763	1,043,763	3,143,292	118,447	-	3,261,739	-	-	3,261,739	88%	
	260903	WRRF Front Entrance Rehab.	7,817,069	2,475,342	2,475,342	367,597	17,446	-	385,043	-	-	385,043	5%	
	260904	WRRF 3rd Floor Renovation	3,546,009	14,026	14,026	68,417	30,506	-	98,922	-	-	98,922	3%	
	260905	WRRF Plumbing Shop Rehab	2,669,399	1,144,117	1,144,117	134,360	10,570	-	144,930	-	-	144,930	5%	
	261000	WRRF Rehabilitation of Secondary Clarifiers	41,637,242	-	-	-	-	-	-	-	-	-	0%	
	261001	Rehabilitation of Secondary Clarifiers	18,941,302	161,360	161,360	26,712	5,870	-	32,581	-	-	32,581	0%	
Programs Total			1,598,544,588	92,767,210	94,497,710	95,169,871	15,820,232	-	110,990,104	46,853,855	-	157,843,959	10%	
Programs - Water	171501	Roof Replacements - Var Facilities Program	-	-	-	-	-	-	-	83,000	-	83,000	0%	
Programs - Water Total			-	-	-	-	-	-	-	83,000	-	83,000	0%	
Security	341002	Security Infrastructure Improvements	2,362,970	-	-	-	-	-	-	3,200,851	-	3,200,851	135%	
Security Total			2,362,970	-	-	-	-	-	-	3,200,851	-	3,200,851	135%	
Systems Control Center	232001	Fairview Pumping Station - Replace Four Sanitary Pumps	46,124,283	2,479,602	2,479,602	43,849,170	681,996	-	44,531,166	-	-	44,531,166	97%	
	232002	Freud and Connor Creek Pump Station Improvements	464,091,911	21,815,785	21,815,785	12,238,422	233,782	-	12,472,204	6,103,686	-	18,575,890	4%	
	233003	Rouge River In-system Storage Devices	81,335,735	-	-	-	-	-	-	-	-	-	0%	
Systems Control Center Total			591,551,929	24,295,387	24,295,387	56,087,591	915,779	-	57,003,370	6,103,686	-	63,107,056	11%	
Water Resource Recovery Facility	211001	Rehabilitation of Primary Clarifiers Rectangular Tanks, Drain Lines, Electrical/Mechanical Building and Pipe Gallery	54,737,713	-	-	-	-	-	-	54,748,738	-	54,748,738	100%	
	211002	Pump Station No. 2 Pumping Improvments	3,737,135	164,894	164,894	2,654,703	27,601	2,654,703	27,601	2,654,703	-	2,682,304	72%	
	211004	Pump Station 1 Rack & Grit and MPI Sampling Station 1 Improvements	28,488,884	-	-	-	-	-	-	27,895,001	-	27,895,001	98%	
	211005	Pump Station No. 2 Improvements	83,607,696	1,642,063	1,642,063	379,595	14,087	-	393,682	-	-	393,682	0%	
	211006	Pump Station No. 1 Improvements	110,959,522	15,843,863	22,296,763	11,410,932	1,698,417	-	13,109,349	-	-	13,109,349	12%	
	211007	Replacement of Bar Racks and Grit Collection System at Pump Station No. 2	122,757,265	4,814,699	5,310,899	8,777,838	11,072	-	8,788,910	-	-	8,788,910	7%	
	211008	Rehabilitation of Ferric Chloride Feed systems at the Pump Station -1 and Complex B Sludge Lines	12,756,072	1,540,577	1,540,577	10,478,819	471,172	-	10,949,992	-	-	10,949,992	86%	
	211009	Rehabilitation of the Circular Primary Clarifier Scum Removal System	23,215,192	-	-	549,344	-	-	549,344	-	-	549,344	2%	
	211010	Rehabilitation of Sludge Processing Complexes A and B	14,104,223	-	-	94,337	-	-	94,337	-	-	94,337	1%	
	211011	WRRF PS1 Screening and Grit Improvements	99,386,498	1,637,866	1,637,866	27,289	17,394	-	44,683	-	-	44,683	0%	
	212003	Aeration System Improvements	16,524,875	-	-	-	-	-	-	16,524,875	-	16,524,875	100%	
	212004	ProjectChlorination/Dechlorination Process Equipment Improvements	5,650,501	-	-	-	-	-	-	5,652,101	-	5,652,101	100%	
	212006	PC-797 Rouge River Outfall Disinfection and CS-1781 Oversight Consulting Services Contract	43,788,731	-	-	-	-	-	-	43,788,731	-	43,788,731	100%	
	212007	Rehabilitation of the Secondary Clarifiers	2,645	-	-	-	-	-	-	-	-	-	0%	
	212008	WRRF Rehabilitation of Intermediate Lift	194,787,461	10,876,684	10,876,684	1,195,891	60,073	-	1,255,964	-	-	1,255,964	1%	
	212009	WRRF Aeration Improvements 3 and 4	69,528,226	-	-	-	-	-	-	-	-	-	0%	
	212010	WRRF Conversion of Disinfection of all Flow to Sodium Hypochlorite and Sodium Bisulfite	6,231,557	-	-	-	-	-	-	-	-	-	0%	
	213006	Improvements to Sludge Feed Pumps at Dewatering Facilities	17,944,119	1,050,206	1,050,206	746,836	177,901	-	924,737	-	-	924,737	5%	
	213007	Construction of the Improved Sludge Conveyance and Lighting System at the WWTP	25,470,489	709,475	709,475	22,852,865	42,207	-	22,895,072	-	-	22,895,072	90%	
	213008	Rehabilitation of the Wet and Dry Ash Handling Systems	7,183,909	-	-	151,058	-	-	151,058	-	-	151,058	2%	
	213009	Phosphorous Recovery Facility at the WWRF	335,447,898	-	-	10,848	(2,275)	-	8,574	-	-	8,574	0%	
	214001	Relocation of Industrial Waste Division and Analytical Laboratory Operations	14,791,656	-	-	-	-	-	-	14,300,183	-	14,300,183	97%	
	216004	Rehabilitation of Various Sampling Sites and PS# 2 Ferric Chloride System at WWTP	8,555,862	195,840	195,840	7,723,935	231,916	(55,620)	8,011,471	(55,620)	-	7,955,851	93%	
	216006	Rehabilitation of the Screened Final Effluent (SFE) Pump Station and Secondary Water System	31,871,434	8,215,922	8,215,922	5,982,678	277,320	-	6,259,998	-	-	6,259,998	20%	
	216007	DTE Primary Electric 3rd Feed Supply Line to the WRRF	3,996,247	-	-	-	-	-	-	4,008,247	-	4,008,247	100%	
	216008	Rehabilitation of Screened Final Effluent (SFE) Pump Station	101,100,651	2,693,951	3,182,551	3,711,028	538,192	-	4,249,220	-	-	4,249,220	4%	
	216009	Logistics & Material Facility	289,862	-	-	-	-	-	-	-	-	-	0%	
	216010	WRRF Facility Optimization	2,003	-	-	-	-	-	-	-	-	-	0%	
	216011	WRRF Structural Improvements	17,185,482	3,259,348	3,259,348	1,733,060	671,517	-	2,404,577	-	-	2,404,577	14%	
	216012	WRRF Research Facility	228,119	-	-	-	-	-	-	-	-	-	0%	
Water Resource Recovery Facility Total			1,454,331,929	52,645,387	60,083,087	78,481,057	4,236,594	2,599,083	80,118,568	169,516,960	-	249,635,527	17%	
Grand Total			4,074,870,364	199,061,145	208,229,345	288,688,600	24,959,503	2,599,083	311,049,020	227,618,704	-	538,667,724	13%	

Appendix C - Project Amendment Summaries

The purpose of the Project Amendment Summary is to illustrate the amendments to the current fiscal year board approved CIP for each project with an amendment resulting from the use of allowance and program funding for a specific amount necessitated by contract award.

The award of CIP contracts and the related execution thereof may result in deviation from the amount and timing of planned spend. Acknowledging the aforementioned deviation, project amendments are prepared to fund the related increase or decrease either to or from the Capital Reserve to amend the current fiscal year board approved Capital Improvement Plan accordingly and to inform decision makers in the development of future Capital Improvement Plans. Similar to the project amendments prepared for the Capital Reserve, project amendments are also prepared for contracts that are planned or funded by way of the CIP Program and Allowance accounts. As additional contracts are awarded, and other project information becomes available additional project amendments to and from the Capital Reserve will be prepared to amend the board approved FY 2023 Capital Improvement Plan.

\$5,254,800 of Capital Reserve project amendments have been prepared as of September 30, 2023, as shown for the Water System in C1 – Water FY 2023 Project Amendment Summary with project amendments detailing the assignment of funding within Program and Allowance accounts.

\$9,168,200 of Capital Reserve project amendments have been prepared as of September 30, 2023, as shown for the Wastewater system in C2 – Wastewater FY 2023 Project Amendment Summary with project amendments detailing the assignment of funding within Program and Allowance accounts.

The order of these appendices on the subsequent pages are in ascending order by CIP project number.

Great Lakes Water Authority
C1 - Water System Project Amendment Summary
Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

Project	Project Name	Capital Reserve	Grand Total
114002	Springwells WTP Low and High Lift Improv	(500)	(500)
111006	Replace Instrumentation: LHWTP	999,000	999,000
114017	SPW WTP Flocculator Drive Replacement	955,800	955,800
122006	Transmission Work: Wick Road Parallel	373,500	373,500
132010	Division Valves at West Service Center	(687,300)	(687,300)
132012	Ypsilanti Pumping Station Improvements	196,600	196,600
170500	Program: Transmission Valve Assessment	(1,616,600)	(1,616,600)
170503	Transmission System Valve Replacement Pa	2,869,900	2,869,900
170504	Repair of WTM, Valves, & Priority Repair	2,164,400	2,164,400
Grand Total		\$ 5,254,800	\$ 5,254,800

Great Lakes Water Authority
C2 - Wastewater System Project Amendment Summary
Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

Project	Project Name	Capital Reserve	Grand Total
211006	Pump Station #1 Main Lift Pumps Rehab	6,452,900	6,452,900
211007	Replacement of Bar Rack at Pump Station 2	496,200	496,200
216008	Rehabilitation of SFE Pump Station	488,600	488,600
260614	CSO Facilities - Structural Improvements	463,300	463,300
260204	Eng Svcs for Rehab of Convey Sewer System	772,400	772,400
260207	Rehabilitation of Woodward Sewer System	494,800	494,800
Grand Total	\$	9,168,200	\$ 9,168,200