



## Financial Services Audit Committee Communication

**Date:** March 22, 2024

**To:** Great Lakes Water Authority Audit Committee

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

**Re:** FY 2024 Q2 Construction Work-in-Progress Report through December 31, 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 Q2 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 December 31, 2023**

**For questions, please contact:**

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**March 22, 2024**

## **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 December 31, 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 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 December 31, 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 the GLWA Board of Directors amended the Adjusted Capital Spending Ratio (SRA) to 94.0% for the Water system and 82.9% for the Wastewater system. These Adjusted Capital Spending Ratios will be revised with the upcoming Q2 FY2024 Budget Amendment Report

The Water System spend for the period ending December 31, 2023, is 69.5% of the FY 2024 board approved CIP, 86.7% of the FY 2024 board approved CIP with project amendments, 69.5% of the FY 2024 Approved Capital Spending Rate Assumption (SRA) and 73.9% 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 \$191.7M is provided in the subsequent Project Amendment Summary appendix of this report.

Water System Projects		FY 2023	FY 2023	FY 2023		FY 2024	FY 2024	
(in millions)		FY 2023	Activity	Percentage	FY 2024	Prorated (Six Months)	Activity (Unaudited)	FY 2024 Percentage
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	\$ 119.7	\$ 83.1	69.5%
FY 2024 Board Approved CIP With Project Amendments					191.7	95.9	83.1	86.7%
FY 2024 Capital Spend Rate Assumption (SRA) - Approved					239.3	119.7	83.1	69.5%
FY 2024 Capital Spend Rate Assumption (SRA) - Adjusted					224.9	112.5	83.1	73.9%

**Executive Summary (Continued)**

The Wastewater System spend for the period ending December 31, 2023, is 57.8% of the FY 2024 board approved CIP, 55.7% of the FY 2024 board approved CIP with project amendments, 57.8% of the FY 2024 Approved Capital Spending Rate Assumption (SRA) and 69.7% 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 \$206.5M is provided in the subsequent Project Amendment Summary appendix of this report.

Wastewater System Projects	FY 2023	FY 2023 Activity	FY 2023 Percentage	FY 2024	FY 2024 Prorated (Six Months)	FY 2024 Activity (Unaudited)	FY 2024 Percentage
<i>(in millions)</i>							
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	\$ 99.5	\$ 57.5	57.8%
FY 2024 Board Approved CIP With Project Amendments				206.5	103.3	57.5	55.7%
FY 2024 Capital Spend Rate Assumption (SRA) - Approved				199.0	99.5	57.5	57.8%
FY 2024 Capital Spend Rate Assumption (SRA) - Adjusted				165.0	82.5	57.5	69.7%

## **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, Macomb County, Oakland County, Saint Clair County or Multiple Counties and reflected accordingly in this report.

**\$454.1** million is in CWIP as of December 31, 2023 as shown for the Water System in A1 - Water - CWIP Rollforward by Jurisdiction

**\$320.8** million is in CWIP as of December 31, 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 December 31, 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 December 31st, 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 December 31, 2023	CWIP Balance December 31, 2023
City of Detroit	\$ 638,107,597	\$ 106,551,466	\$ 40,250,349	\$ 40,875,349	\$ 19,649,435	\$ 126,200,901
Lapeer County	143,765,078	5,451,155	902,113	902,113	(100,705)	5,350,450
Mutiple Counties	806,054,995	94,920,092	103,273,696	53,298,096	21,578,349	116,442,821
Oakland County	526,779,159	101,425,208	35,809,598	35,122,298	21,598,386	123,023,594
Saint Clair County	357,322,501	10,362,274	16,975,870	17,974,870	5,834,585	16,196,859
Wayne County - Outside Detroit	1,271,890,345	55,533,758	42,047,936	43,573,336	14,538,993	66,916,257
<b>Grand Total</b>	<b>\$ 3,743,919,674</b>	<b>\$ 374,243,953</b>	<b>\$ 239,259,562</b>	<b>\$ 191,746,062</b>	<b>\$ 83,099,043</b>	<b>\$ 454,130,882</b>

**Construction Work-in-Progress Quarterly Report**

As of December 31, 2023

**Great Lakes Water Authority**

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

**Unaudited Activity For the Fiscal Quarter Ended December 31st, 2023**

<b>Jurisdiction</b>	<b>Total Project Plan Estimate</b>	<b>CWIP Balance July 1, 2023</b>	<b>FY 2024 Board Approved CIP</b>	<b>FY 2024 Board Approved CIP With Project Amendments</b>	<b>FY 2024 Activity through December 31, 2023</b>	<b>CWIP Balance December 31, 2023</b>
City of Detroit	\$ 2,431,678,757	\$ 209,701,082	\$ 129,495,209	\$ 135,255,509	\$ 26,090,469	\$ 210,339,604
Mutiple Counties	1,503,643,833	78,549,059	69,338,051	71,068,551	31,213,433	109,762,492
Wayne County - Outside Detroit	139,547,775	438,459	227,885	227,885	284,217	722,676
<b>Grand Total</b>	<b>\$ 4,074,870,364</b>	<b>\$ 288,688,600</b>	<b>\$ 199,061,145</b>	<b>\$ 206,551,945</b>	<b>\$ 57,588,119</b>	<b>\$ 320,824,772</b>

## 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 2nd quarter for the following projects:

<u>Project</u>	<u>Contract</u>	<u>Description</u>
211002	PC-795	Pump Station No. 2 Pumping Improvements
213007	CON-197	Modification to Incinerator Sludge Feed
216004	1802410	WRRF & PS2 Grit and Screening Rehab

**\$454.1** million is in CWIP as of December 31, 2023, as shown for the Water System in B1 - Water - Detailed CWIP Rollforward

**\$320.8** million is in CWIP as of December 31, 2023, as shown for the Wastewater System in B2 - Wastewater - Detailed CWIP Rollforward

# Construction Work-in-Progress Quarterly Report

As of December 31, 2023

Great Lakes Water Authority

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

Unaudited Activity For the Fiscal Quarter Ended December 31st, 2023

Project Category	Total Project Plan Estimate	FY 2024 Board	FY 2024 Board	CWIP Balance July 1, 2023	FY 2024	FY 2024 Capitalizations	CWIP Balance December 31, 2023	Life to Date	Life to Date	Life to Date
		Approved CIP	With Project Amendments		Activity through December 31, 2023	And Other Activity Through December 31, 2023		Capitalizations And Other Activity	Activity Through December 31, 2023	Activity / Total Project Plan Estimate
Field Services - Water	605,748,307	121,118,374	70,251,574	119,596,676	42,237,917	-	161,834,593	98,677,166	260,511,758	43%
Programs - Water	563,390,417	21,421,981	23,311,681	50,259,310	4,991,957	55,620	55,195,647	32,388,171	87,583,818	16%
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	2,419,324	-	55,925,210	5,973,851	61,899,061	8%
Water Treatment Plants & Facilities	1,797,962,260	85,654,045	87,608,345	150,882,080	33,395,274	3,156,493	181,120,861	204,602,263	385,723,125	21%
Programs - Centralized Services	32,634,746	679,554	679,554	-	54,570	-	54,570	-	54,570	0%
Energy Mangement	6,667	-	-	-	-	-	-	-	-	0%
Energy Mangement Total	6,667	-	-	-	-	-	-	-	-	0%
<b>Grand Total</b>	<b>3,743,919,674</b>	<b>239,259,562</b>	<b>191,746,062</b>	<b>374,243,953</b>	<b>83,099,043</b>	<b>3,212,113</b>	<b>454,130,882</b>	<b>351,999,208</b>	<b>806,130,089</b>	<b>22%</b>

## Construction Work-in-Progress Quarterly Report

As of December 31, 2023

Great Lakes Water Authority

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

Unaudited Activity For the Fiscal Quarter Ended December 31st, 2023

Project Category	Total Project Plan Estimate	FY 2024 Board		CWIP Balance July 1, 2023	FY 2024 Activity through December 31, 2023	FY 2024		CWIP Balance December 31, 2023	Life to Date Capitalizations And Other Activity	Life to Date Activity through December 31, 2023	Life to Date Activity / Total Project Plan Estimate
		FY 2024 Board Approved CIP	With Project Amendments			Capitalizations And Other	Activity Through				
		Approved CIP				Activity Through	December 31, 2023				
<b>CSO Facilities</b>	223,462,073	9,578,136	9,578,136	5,277,057	4,692,126	-	-	9,969,183	737,296	10,706,479	5%
<b>Facilities</b>	1,123,056	-	-	-	-	-	-	-	1,123,056	1,123,056	100%
<b>Field Services - Wastewater</b>	203,493,821	19,775,025	19,775,025	53,673,024	2,823,725	-	-	56,496,748	-	56,496,748	28%
<b>Programs</b>	1,598,544,588	92,767,210	94,497,710	95,169,871	38,634,259	-	-	133,804,130	46,853,855	180,657,986	11%
<b>Programs - Water</b>	-	-	-	-	-	-	-	-	83,000	83,000	0%
<b>Security</b>	2,362,970	-	-	-	-	-	-	-	3,200,851	3,200,851	135%
<b>Systems Control Center</b>	591,551,929	24,295,387	24,295,387	56,087,591	2,494,735	-	-	58,582,326	6,103,686	64,686,012	11%
<b>Water Resource Recovery Facility</b>	1,454,331,929	52,645,387	58,405,687	78,481,057	8,943,275	25,451,948	-	61,972,384	192,369,824	254,342,208	17%
<b>Grand Total</b>	<b>4,074,870,364</b>	<b>199,061,145</b>	<b>206,551,945</b>	<b>288,688,600</b>	<b>57,588,119</b>	<b>25,451,948</b>	<b>-</b>	<b>320,824,772</b>	<b>250,471,569</b>	<b>571,296,340</b>	<b>14%</b>

# Construction Work-in-Progress Quarterly Report

As of December 31, 2023

Great Lakes Water Authority  
 B3 - Water System Construction Work-in-Progress (CWIP) FY 2024 Rollforward  
 Unaudited Activity For the Fiscal Quarter Ended December 31st, 2023

Project Category	Project	Project Name	Total Project	FY 2024 Board	FY 2024 Board	CWIP Balance	FY 2024	FY 2024 Capitalizations	CWIP Balance	Life to Date	Life to Date	Life to Date	
			Plan Estimate	Approved CIP	Approved CIP		Activity through	And Other		Capitalizations And	Activity Through	Activity /	
					With Project	July 1, 2023	December 31, 2023	Activity Through	December 31, 2023	Other Activity	December 31, 2023	Total Project	
					Amendments							Plan Estimate	
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	33,352,071	50,857,698	18,112,388	-	68,970,086	148,741	69,118,827	29%	
	122005	Replacement Schoolcraft Watermain	18,645,713	-	-	3,396,485	(97,615)	-	3,298,870	13,656,834	16,955,705	91%	
	122006	Transmission System Water Main Work-Wick Road Parallel Water Main	26,261,331	-	373,500	4,301,439	986,437	-	5,287,876	20,751,264	26,039,140	99%	
	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	-	-	-	101	-	101	6,832,945	6,833,045	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	19,160,179	-	76,271,736	17,510,830	93,782,567	82%	
	122016	Downriver Transmission Loop	69,991,506	5,308,831	5,308,831	2,831,943	218,423	-	3,050,366	-	3,050,366	4%	
	122017	7 Mile/Nevada Transmission Main Rehab and Carrie/Nevada Flow Control Station	13,118,300	3,389,881	4,014,881	-	3,821,606	-	3,821,606	-	3,821,606	29%	
	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	36,397	-	1,133,951	-	1,133,951	3%	
	<b>Field Services - Water Total</b>			<b>605,748,307</b>	<b>121,118,374</b>	<b>70,251,574</b>	<b>119,596,676</b>	<b>42,237,917</b>	<b>-</b>	<b>161,834,593</b>	<b>98,677,166</b>	<b>260,511,758</b>	<b>43%</b>
	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	982,977	-	6,524,954	-	6,524,954	79%	
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	1,226,084	-	14,406,294	-	14,406,294	96%	
170504		Repair of WTM, Valves, & Priority Repair	18,400,000	549,168	2,713,568	9,219,808	237,588	-	9,457,396	-	9,457,396	51%	
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	-	103,243	-	103,243	-	103,243	0%	
170801		Reservoir Inspection, Design and Rehabilitation	25,385,252	2,570,361	2,570,361	14,494,537	1,529,241	55,620	15,968,158	8,822,454	24,790,612	98%	
170802		Reservoir Inspection, Design	47,175,002	9,292,018	7,764,018	2,460,276	315,235	-	2,775,511	-	2,775,511	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	-	601,545	-	601,545	-	601,545	4%		
171500	Roof Replacement - Var Facilities Program	15,948,441	-	-	-	-	-	-	-	-	0%		

# Construction Work-in-Progress Quarterly Report

As of December 31, 2023

Great Lakes Water Authority  
 B3 - Water System Construction Work-in-Progress (CWIP) FY 2024 Rollforward  
 Unaudited Activity For the Fiscal Quarter Ended December 31st, 2023

Project Category	Project	Project Name	Total Project Plan Estimate	FY 2024 Board Approved CIP			FY 2024 Activity through December 31, 2023	FY 2024 Capitalizations And Other Activity Through		Life to Date Capitalizations And Other Activity	Life to Date Activity Through December 31, 2023	Life to Date Activity / Total Project Plan Estimate
				FY 2024 Board Approved CIP	With Project Amendments	CWIP Balance July 1, 2023		December 31, 2023	December 31, 2023			
<b>Programs - Water</b>	<b>171501</b>	Roof Replacements - Var Facilities Program	3,354,843	-	-	-	-	-	-	3,354,843	3,354,843	100%
	<b>171502</b>	Lake Huron and Southwest Roof Replacement	2,709,759	-	-	-	-	-	-	-	-	0%
<b>Programs - Water Total</b>			<b>563,390,417</b>	<b>21,421,981</b>	<b>23,311,681</b>	<b>50,259,310</b>	<b>4,991,957</b>	<b>55,620</b>	<b>55,195,647</b>	<b>32,388,171</b>	<b>87,583,818</b>	<b>16%</b>
<b>Security</b>	<b>341001</b>	Security Infrastructure Improvements	5,258,442	-	-	-	-	-	-	10,357,757	10,357,757	197%
<b>Security Total</b>			<b>5,258,442</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>10,357,757</b>	<b>10,357,757</b>	<b>197%</b>
<b>Systems Control Center</b>	<b>132003</b>	Isolation Gate Valves for Line Pumps for West Service Center Pumping Station	1,742,479	-	-	-	-	-	-	1,742,479	1,742,479	100%
	<b>132006</b>	Pressure and Control Improvements at the Electric, Ford Road, Michigan, and West Chica	3,227,776	-	-	-	-	-	-	3,226,045	3,226,045	100%
	<b>132007</b>	Energy Management: Freeze Protection Pump Installation at Imlay Pumping Station	5,754,204	902,113	902,113	5,180,944	(100,705)	-	5,080,240	-	5,080,240	88%
	<b>132010</b>	West Service Center/Duval Rd Division Valve Upgrades	47,770,838	4,758,831	4,071,531	42,921,051	1,819,812	-	44,740,863	-	44,740,863	94%
	<b>132012</b>	Ypsilanti PS Improvements	43,394,088	701,075	897,675	2,443,545	81,604	-	2,525,150	-	2,525,150	6%
	<b>132014</b>	Adams Road Booster Pumping Improvements	61,777,803	-	-	102,450	-	-	102,450	-	102,450	0%
	<b>132015</b>	Newburgh BPS	46,396,137	-	-	1,232,925	218	-	1,233,143	30,000	1,263,143	3%
	<b>132016</b>	North Service Center BPS Improvements	239,583,663	4,023,590	4,023,590	1,195,463	618,394	-	1,813,857	-	1,813,857	1%
	<b>132018</b>	Schoolcraft BPS	24,690,695	-	-	-	-	-	-	-	-	0%
	<b>132019</b>	Wick Road BPS - Switchgear	24,788,064	-	-	64,610	-	-	64,610	-	64,610	0%
	<b>132020</b>	Franklin BPS - Isolation Gate Valves	60,919,247	-	-	94,688	-	-	94,688	-	94,688	0%
	<b>132021</b>	Imlay BPS - Replace VFDs, Pumps & Motors	138,010,874	-	-	270,211	-	-	270,211	-	270,211	0%
	<b>132022</b>	Joy Road BPS - Replace Reservoir Pumps	39,857,253	-	-	-	-	-	-	-	-	0%
	<b>132025</b>	Northwest Booster Station Yard Piping Improvements	19,335	-	-	-	-	-	-	-	-	0%
	<b>132026</b>	Franklin Pumping Station Valve Replacement	986,376	-	-	-	-	-	-	975,327	975,327	99%
<b>Systems Control Center Total</b>			<b>738,918,834</b>	<b>10,385,609</b>	<b>9,894,909</b>	<b>53,505,887</b>	<b>2,419,324</b>	<b>-</b>	<b>55,925,210</b>	<b>5,973,851</b>	<b>61,899,061</b>	<b>8%</b>
<b>Water Treatment Plants &amp; Facilities</b>	<b>111001</b>	Energy Management: Lake Huron Water Treatment Plant Low Lift Pumping Improvements	140,410,608	1,553,101	1,553,101	3,536,463	338,962	-	3,875,424	-	3,875,424	3%
	<b>111002</b>	LHWTP Backflow Replacement	8,717,768	-	-	-	-	-	-	8,717,768	8,717,768	100%
	<b>111004</b>	Electrical Tunnel Rehabilitation at Lake Huron WTP	3,806,475	-	-	-	-	-	-	3,892,299	3,892,299	102%
	<b>111006</b>	Water Supply Pumping Assessment Study	85,824	-	-	-	-	-	-	-	-	0%
	<b>111007</b>	Replacement of Filter Instrumentation and Raw Water Flow Metering Improvements at Lake Huron WTP-Raw Sludge Clarifier and Raw Sludge Pumping System Improvements	40,356,342	1,026,425	2,025,425	1,381,273	1,368,536	-	2,749,809	-	2,749,809	7%
	<b>111008</b>	Lake Huron WTP-Architectural Programming - Lab	8,867,103	-	-	-	-	-	-	8,867,103	8,867,103	100%
	<b>111009</b>	Lake Huron WTP-35 MGD HLP, Flow Meters	782,112	-	-	-	-	-	-	-	-	0%
	<b>111010</b>	Lake Huron Water Treatment Plant -Filtration and Pretreatment Improvements	31,003,499	12,609,506	12,609,506	4,699,252	3,919,581	-	8,618,833	-	8,618,833	28%
	<b>111011</b>	Lake Huron WTP Pilot Plant	58,638,596	-	-	-	-	-	-	-	-	0%
	<b>111012</b>	Lake Huron WTP-Flocculation Improvements	3,267,770	-	-	-	-	-	-	3,076,105	3,076,105	94%
	<b>111013</b>	LHWTP-Flocculation Improvements	51,331,404	1,786,838	1,786,838	741,978	206,571	-	948,548	-	948,548	2%
	<b>112001</b>	LH WTP Fireloop & Plant Water Improvements	10,055,000	-	-	3,308	936	-	4,244	-	4,244	0%
	<b>112002</b>	Yard Piping Replacement at Northeast Water Treatment Plant	0	-	-	-	-	-	-	-	-	0%
	<b>112003</b>	Low Lift Pumping Plant Caisson Rehabilitation at Northeast WTP	1,169,962	-	-	-	-	-	-	1,169,962	1,169,962	100%
	<b>112005</b>	NE WTP High Lift Pumping Electrical	171,678,100	-	-	557,608	123	-	557,731	-	557,731	0%
	<b>112006</b>	Northeast Water Treatment Plant - Replacement of Covers for Process Water Conduits	937,879	-	-	-	-	-	-	937,879	937,879	100%
	<b>112006</b>	Northeast Water Treatment Plant Flocculator Replacements	13,446,475	2,637,134	2,637,134	4,066,122	996,721	-	5,062,843	-	5,062,843	38%

# Construction Work-in-Progress Quarterly Report

As of December 31, 2023

Great Lakes Water Authority  
 B3 - Water System Construction Work-in-Progress (CWIP) FY 2024 Rollforward  
 Unaudited Activity For the Fiscal Quarter Ended December 31st, 2023

Project Category	Project	Project Name	Total Project Plan Estimate	FY 2024 Board	FY 2024 Board	CWIP Balance July 1, 2023	FY 2024	FY 2024 Capitalizations	CWIP Balance December 31, 2023	Life to Date	Life to Date	Life to Date
				Approved CIP	With Project Amendments		Activity through December 31, 2023	And Other Activity Through December 31, 2023		Capitalizations And Other Activity	Activity Through December 31, 2023	Activity / Total Project Plan Estimate
Water Treatment Plants & Facilities	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	3,156,493	436	6,107,634	6,108,070	83%
	113007	Architectural and Building Mechanical	8,640,647	-	-	-	1,920	-	1,920	-	1,920	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	6,949,503	-	33,567,201	-	33,567,201	11%
	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	1,020,373	-	1,424,873	11,738,479	13,163,351	93%
	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	909,461	-	2,237,704	24,356,450	26,594,154	94%
	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	3,485,154	-	4,550,403	-	4,550,403	16%
	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	5,168,105	-	34,388,889	-	34,388,889	61%
	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	4,183,286	-	10,125,163	-	10,125,163	61%
	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	4,758,361	-	69,377,817	4,685,231	74,063,048	75%
	116005	Belle Isle Seawall Rehabilitation	2,294,679	737,140	737,140	157,201	87,245	-	244,447	-	244,447	11%
	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%
<b>Water Treatment Plants &amp; Facilities</b>	<b>Total</b>		<b>1,797,962,260</b>	<b>85,654,045</b>	<b>87,608,345</b>	<b>150,882,080</b>	<b>33,395,274</b>	<b>3,156,493</b>	<b>181,120,861</b>	<b>204,602,263</b>	<b>385,723,125</b>	<b>21%</b>



# Construction Work-in-Progress Quarterly Report

As of December 31, 2023

Great Lakes Water Authority  
 B3 - Water System Construction Work-in-Progress (CWIP) FY 2024 Rollforward  
 Unaudited Activity For the Fiscal Quarter Ended December 31st, 2023

Project Category	Project	Project Name	Total Project Plan Estimate	FY 2024 Board	FY 2024 Board	CWIP Balance July 1, 2023	FY 2024	FY 2024 Capitalizations	CWIP Balance December 31, 2023	Life to Date	Life to Date	Life to Date
				Approved CIP	With Project Amendments		Activity through December 31, 2023	And Other Activity Through December 31, 2023		Capitalizations And Other Activity	Activity Through December 31, 2023	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%
	399900	CS-272 - Capital Allocation	-	-	-	54,570	-	54,570	-	-	54,570	0%
<b>Programs - Centralized Services Total</b>			<b>32,634,746</b>	<b>679,554</b>	<b>679,554</b>	<b>-</b>	<b>54,570</b>	<b>-</b>	<b>54,570</b>	<b>-</b>	<b>54,570</b>	<b>0%</b>
Energy Mangement	351001	Water Facility Lighting Renovations	6,667	-	-	-	-	-	-	-	-	0%
<b>Energy Mangement Total</b>			<b>6,667</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0%</b>
<b>Grand Total</b>			<b>3,743,919,674</b>	<b>239,259,562</b>	<b>191,746,062</b>	<b>374,243,953</b>	<b>83,099,043</b>	<b>3,212,113</b>	<b>454,130,882</b>	<b>351,999,208</b>	<b>806,130,089</b>	<b>22%</b>

# Construction Work-in-Progress Quarterly Report

As of December 31, 2023

Great Lakes Water Authority  
 B4 - Wastewater System Construction Work-in-Progress (CWIP) FY 2024  
 Rollforward Unaudited Activity For the Fiscal Quarter Ended December 31st, 2023

Project Category	Project	Project Name	Total Project Plan Estimate	FY 2024 Board			FY 2024 Capitalizations			Life to Date Capitalizations And Other Activity	Life to Date Activity through December 31, 2023	Life to Date Activity / Total Project Plan Estimate
				FY 2024 Board Approved CIP	With Project Amendments	CWIP Balance July 1, 2023	FY 2024 Activity through December 31, 2023	And Other Activity Through December 31, 2023	CWIP Balance December 31, 2023			
CSO Facilities	270001	Pilot CSO Netting Facility	37,884,356	-	-	2,207	11,465	-	13,672	-	13,672	0%
		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	-	467,181	-	467,181	-	467,181	4%
	270004	Oakwood Lieb CSO Facility Improvement	42,595,642	2,284,906	2,284,906	2,070,852	866,721	-	2,937,574	-	2,937,574	7%
	270006	Control System Upgrades - Baby Creek/Belle	20,538,416	1,477,523	1,477,523	1,103,959	701,869	-	1,805,827	-	1,805,827	9%
	270007	Disinfection System Improvements at CSO	8,345,855	-	-	1,247	38,956	-	40,203	-	40,203	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	10,028	-	18,784	-	18,784	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	284,217	-	722,676	-	722,676	1%
	273002	CSO Hubbell Southfield VR-8 Gate Improvements	1,785,839	-	-	-	-	-	-	-	-	0%
	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	2,311,689	-	3,962,654	389,300	4,351,954	27%
	277002	Baby Creek CSO Facility Influent Flushing System	744,959	-	-	-	-	-	-	-	-	0%
<b>CSO Facilities Total</b>			<b>223,462,073</b>	<b>9,578,136</b>	<b>9,578,136</b>	<b>5,277,057</b>	<b>4,692,126</b>	<b>-</b>	<b>9,969,183</b>	<b>737,296</b>	<b>10,706,479</b>	<b>5%</b>
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%
<b>Facilities Total</b>			<b>1,123,056</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,123,056</b>	<b>1,123,056</b>	<b>100%</b>
Field Services - Wastewater	222001	Intercommunity Relief Sewer Modifications in Detroit Oakwood District	81,428,171	-	-	2,609,882	83,979	-	2,693,861	-	2,693,861	3%
	222002	Detroit River Interceptor Evaluation and Rehabilitation	117,561,404	17,254,477	17,254,477	51,063,141	2,739,746	-	53,802,887	-	53,802,887	46%
	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%
<b>Field Services - Wastewater Total</b>			<b>203,493,821</b>	<b>19,775,025</b>	<b>19,775,025</b>	<b>53,673,024</b>	<b>2,823,725</b>	<b>-</b>	<b>56,496,748</b>	<b>-</b>	<b>56,496,748</b>	<b>28%</b>
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	141,168	-	20,366,792	18,542,127	38,908,919	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	4,168,386	-	14,211,941	-	14,211,941	25%
	260205	NWI Outfall Rehabilitation	7,734,426	4,232,450	4,232,450	2,303,696	2,167,293	-	4,470,989	-	4,470,989	58%
	260206	Conveyance System Rehabilitation - Interceptors	23,141,361	8,166,750	8,166,750	1,197,436	2,160,198	-	3,357,634	-	3,357,634	15%
	260207	Rehabilitation of Woodward Sewer System	23,229,319	6,721,768	7,216,568	12,008,292	10,206,049	-	22,214,341	-	22,214,341	96%
	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	823,121	-	2,921,204	-	2,921,204	20%
	260210	Linwood/Lonyo/Ashland/2nd Ave/Shiawassee	36,341,245	1,521,537	1,521,537	320,171	656,301	-	976,472	-	976,472	3%
	260211	#N/A	-	-	-	-	1,513	-	1,513	-	1,513	0%
	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%

# Construction Work-in-Progress Quarterly Report

As of December 31, 2023

Great Lakes Water Authority

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

Rollforward Unaudited Activity For the Fiscal Quarter Ended December 31st, 2023

Project Category	Project	Project Name	Total Project Plan Estimate	FY 2024 Board			FY 2024 Activity through December 31, 2023	FY 2024 Capitalizations			Life to Date Capitalizations And Other Activity	Life to Date Activity through December 31, 2023	Life to Date Activity / Total Project Plan Estimate
				FY 2024 Board Approved CIP	FY 2024 Board With Project Amendments	CWIP Balance July 1, 2023		FY 2024 And Other Activity Through December 31, 2023	CWIP Balance December 31, 2023				
Programs	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	3,796,926	-	9,828,868	-	9,828,868	92%	
	260509	B-40 Outfall Rehab	112,591	-	-	112,591	-	-	112,591	-	112,591	100%	
	260510	Conveyence System Rehabilitation - Outfalls	24,947,182	4,826,857	4,826,857	1,871,607	1,182,461	-	3,054,068	-	3,054,068	12%	
	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	1,525,442	-	13,828,980	-	13,828,980	90%	
	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	489,767	-	6,110,711	-	6,110,711	88%	
	260619	Control System Upgrade At St. Aubin, Lieb and 7 Mile	7,972,657	3,868,475	3,868,475	1,050,133	657,407	-	1,707,539	-	1,707,539	21%	
	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%	
	260622	CSO Facilities Emergency Generator Improvements	1,376,296	-	-	978,411	4,743	-	983,154	-	983,154	71%	
	260623	Baby Creek Screen Rehabilitation	2,393,230	1,048,740	1,048,740	1,447,517	320,024	-	1,767,540	-	1,767,540	74%	
	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	9,250,749	-	22,428,395	-	22,428,395	38%	
	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	134,144	-	436,203	-	436,203	9%	
	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	538,970	-	868,567	-	868,567	25%	
	260902	WRRF Renovation of 4th Floor	3,719,708	1,043,763	1,043,763	3,143,292	307,354	-	3,450,646	-	3,450,646	93%	
	260903	WRRF Front Entrance Rehab.	7,817,069	2,475,342	2,475,342	367,597	28,240	-	395,837	-	395,837	5%	
	260904	WRRF 3rd Floor Renovation	3,546,009	14,026	14,026	68,417	33,638	-	102,055	-	102,055	3%	
	260905	WRRF Plumbing Shop Rehab	2,669,399	1,144,117	1,144,117	134,360	29,964	-	164,324	-	164,324	6%	
	261000	WRRF Rehabilitation of Secondary Clarifiers	41,637,242	-	-	-	-	-	-	-	-	0%	
	261001	Rehabilitation of Secondary Clarifiers	18,941,302	161,360	161,360	26,712	12,776	-	39,488	-	39,488	0%	
<b>Programs Total</b>			<b>1,598,544,588</b>	<b>92,767,210</b>	<b>94,497,710</b>	<b>95,169,871</b>	<b>38,634,259</b>	-	<b>133,804,130</b>	<b>46,853,855</b>	<b>180,657,986</b>	<b>11%</b>	
<b>Programs - Water</b>	171501	Roof Replacements - Var Facilities Program	-	-	-	-	-	-	-	83,000	83,000	0%	
<b>Programs - Water Total</b>			-	-	-	-	-	-	-	<b>83,000</b>	<b>83,000</b>	<b>0%</b>	
<b>Security</b>	341002	Security Infrastructure Improvements	2,362,970	-	-	-	-	-	-	3,200,851	3,200,851	135%	
<b>Security Total</b>			<b>2,362,970</b>	-	-	-	-	-	-	<b>3,200,851</b>	<b>3,200,851</b>	<b>135%</b>	
<b>Systems Control Center</b>	232001	Fairview Pumping Station - Replace Four Sanitary Pumps	46,124,283	2,479,602	2,479,602	43,849,170	945,438	-	44,794,607	-	44,794,607	97%	
	232002	Freud and Connor Creek Pump Station Improvements	464,091,911	21,815,785	21,815,785	12,238,422	1,549,297	-	13,787,719	6,103,686	19,891,405	4%	
	233003	Rouge River In-system Storage Devices	81,335,735	-	-	-	-	-	-	-	-	0%	
<b>Systems Control Center Total</b>			<b>591,551,929</b>	<b>24,295,387</b>	<b>24,295,387</b>	<b>56,087,591</b>	<b>2,494,735</b>	-	<b>58,582,326</b>	<b>6,103,686</b>	<b>64,686,012</b>	<b>11%</b>	

# Construction Work-in-Progress Quarterly Report

As of December 31, 2023

Great Lakes Water Authority

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

Rollforward Unaudited Activity For the Fiscal Quarter Ended December 31st, 2023

Project Category	Project	Project Name	Total Project Plan Estimate	FY 2024 Board	FY 2024 Board	CWIP Balance July 1, 2023	FY 2024	FY 2024 Capitalizations	CWIP Balance December 31, 2023	Life to Date	Life to Date	Life to Date
				Approved CIP	With Project Amendments		Activity through December 31, 2023	And Other Activity Through December 31, 2023		Capitalizations And Other Activity	Activity through December 31, 2023	Activity / Total Project Plan Estimate
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	50,580	2,654,703	50,580	2,654,703	2,705,283	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	19,239	-	398,834	-	398,834	0%
	211006	Pump Station No. 1 Improvements	110,959,522	15,843,863	22,296,763	11,410,932	2,683,603	-	14,094,535	-	14,094,535	13%
	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	24,777	-	8,802,615	-	8,802,615	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	1,101,456	-	11,580,276	-	11,580,276	91%
	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	670,702	-	697,991	-	697,991	1%
	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	64,884	-	1,260,775	-	1,260,775	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	523,624	-	1,270,460	-	1,270,460	7%
	213007	Construction of the Improved Sludge Conveyance and Lighting System at the WWTP	25,470,489	709,475	709,475	22,852,865	191,912	22,852,865	191,912	22,852,865	23,044,777	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 WRRF	335,447,898	-	-	10,848	(454)	-	10,394	-	10,394	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	238,594	(55,620)	8,018,149	(55,620)	7,962,529	93%
	216006	Rehabilitation of the Screened Final Effluent (SFE) Pump Station and Secondary Water System	31,871,434	8,215,922	6,538,522	5,982,678	572,919	-	6,555,597	-	6,555,597	21%
	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	538,948	-	4,249,976	-	4,249,976	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	2,262,490	-	3,995,550	-	3,995,550	23%
	216012	WRRF Research Facility	228,119	-	-	-	-	-	-	-	-	0%
<b>Water Resource Recovery Facility Total</b>			<b>1,454,331,929</b>	<b>52,645,387</b>	<b>58,405,687</b>	<b>78,481,057</b>	<b>8,943,275</b>	<b>25,451,948</b>	<b>61,972,384</b>	<b>192,369,824</b>	<b>254,342,208</b>	<b>17%</b>
<b>Grand Total</b>			<b>4,074,870,364</b>	<b>199,061,145</b>	<b>206,551,945</b>	<b>288,688,600</b>	<b>57,588,119</b>	<b>25,451,948</b>	<b>320,824,772</b>	<b>250,471,569</b>	<b>571,296,340</b>	<b>14%</b>

## 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.

**(\$47,513,500)** of Capital Reserve project amendments have been prepared as of December 31, 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.

**\$7,490,800** of Capital Reserve project amendments have been prepared as of December 31, 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.

## Construction Work-in-Progress Quarterly Report

As of December 31, 2023

### Great Lakes Water Authority

### C1 - Water System Project Amendment Summary

### Unaudited Activity For the Fiscal Quarter Ended December 31st, 2023

Project	Project Name	Capital Reserve	Grand Total
111006	Replace Instrumentation: LHWTP	999,000	999,000
114002	Springwells WTP Low and High Lift Improv	(500)	(500)
114017	SPW WTP Flocculator Drive Replacement	955,800	955,800
122004	96" Main Relocation, Isolation Valve Ins	(51,865,300)	(51,865,300)
122006	Transmission Work: Wick Road Parallel	373,500	373,500
122017	7 Mile/NV TM Rehab and Carrie/NV Flow CS	625,000	625,000
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
170802	Reservoir Inspection, Design	(1,528,000)	(1,528,000)
<b>Grand Total</b>		<b>\$ (47,513,500)</b>	<b>\$ (47,513,500)</b>

**Great Lakes Water Authority**

**C2 - Wastewater System Project Amendment Summary**

**Unaudited Activity For the Fiscal Quarter Ended December 31st, 2023**

<b>Project</b>	<b>Project Name</b>	<b>Capital Reserve</b>	<b>Grand Total</b>
<b>211006</b>	Pump Station #1 Main Lift Pumps Rehab	6,452,900	6,452,900
<b>211007</b>	Replacement of Bar Rack at Pump Station 2	496,200	496,200
<b>216006</b>	WRRF Yard Piping & Utility Rehab	(1,677,400)	(1,677,400)
<b>216008</b>	Rehabilitation of SFE Pump Station	488,600	488,600
<b>260204</b>	Eng Svcs for Rehab of Convey Sewer System	772,400	772,400
<b>260207</b>	Rehabilitation of Woodward Sewer System	494,800	494,800
<b>260614</b>	CSO Facilities - Structural Improvements	463,300	463,300
<b>Grand Total</b>		<b>\$ 7,490,800</b>	<b>\$ 7,490,800</b>