



## Financial Services Audit Committee Communication

**Date:** April 22, 2022

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

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

**Re:** FY 2022 Q2 Construction Work-in-Progress Report through December 31, 2021 (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 2022 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, 2021**

**For questions, please contact:**

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**April 22, 2022**

## **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, 2021. The information in this report presents a detailed snapshot and is important as we track the execution of the FY 2022–2026 Capital Improvement Plan (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):* Includes breakdown by jurisdiction which provides a summary of the planned and actual project activity by the jurisdictions identified within the FY 2022 – 2026 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, 2021. 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.

# Construction Work-in-Progress Quarterly Report

As of December 31, 2021

## Executive Summary

The rate of spend is a key performance indicator. The development of the FY 2022-2026 and related CIP Plan for FY 2022 were based on anticipation of FY 2022 activity resulting in 75% of planned spend. The Water System spend for the period ending December 31, 2021, is 94.0% of the FY 2022 board approved CIP, 93.6% of the FY 2022 board approved CIP with project amendments, and 125.3% of the FY 2022 Capital Spending Rate Assumption (SRA). Detailed analysis of the projects for which FY 2022 Board Approved CIP was amended from \$179,210,481 to \$179,978,933 is provided in the subsequent Project Amendment Summary appendix of this report.

The Wastewater System spend for the period ending December 31, 2021, is 60.5% of the FY 2022 board approved CIP, 58.8% of the FY 2022 board approved CIP with project amendments, and 80.7% of the FY 2022 Capital Spending Rate Assumption (SRA). Detailed analysis of the projects for which FY 2022 Board Approved CIP was amended from \$106,050,041 to \$109,223,041 is provided in the subsequent Project Amendment Summary appendix of this report.

Water System Projects	FY 2021	FY 2021 Activity	FY 2021 Percentage	FY 2022	FY 2022 Prorated (Six Months)	FY 2022 Activity (Unaudited)	FY 2022 Percentage
FY 2021 Board Approved CIP	\$ 147,564,000	\$ 131,687,819	89.2%				
FY 2021 Board Approved CIP With Project Amendments	149,084,720	131,687,819	88.3%				
FY 2021 Capital Spend Rate Assumption (SRA)	110,673,000	131,687,819	119.0%				
FY 2022 Board Approved CIP				\$ 179,210,481	\$ 89,605,241	\$ 84,201,950	94.0%
FY 2022 Board Approved CIP With Project Amendments				179,978,933	\$ 89,989,467	84,201,950	93.6%
FY 2022 Capital Spend Rate Assumption (SRA)				134,407,861	\$ 67,203,930	84,201,950	125.3%

Wastewater System Projects	FY 2021	FY 2021 Activity	FY 2021 Percentage	FY 2022	FY 2022 Prorated (Six Months)	FY 2022 Activity (Unaudited)	FY 2022 Percentage
FY 2021 Board Approved CIP	\$ 110,638,000	\$ 85,051,935	76.9%				
FY 2021 Board Approved CIP With Project Amendments	110,180,582	85,051,935	77.2%				
FY 2021 Capital Spend Rate Assumption (SRA)	82,978,500	85,051,935	102.5%				
FY 2022 Board Approved CIP				\$ 106,050,041	\$ 53,025,020	\$ 32,105,290	60.5%
FY 2022 Board Approved CIP With Project Amendments				109,223,041	\$ 54,611,521	32,105,290	58.8%
FY 2022 Capital Spend Rate Assumption (SRA)				79,537,530	\$ 39,768,765	32,105,290	80.7%

## 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 2022 – 2026 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.

**\$271.1** million is in CWIP as of December 31st, 2021 as shown for the Water System in A1.

**\$216.5** million is in CWIP as of December 31, 2021 as show for the Wastewater System in A2. The order of these appendices on the subsequent pages are in ascending by jurisdiction alphabetically.

**Great Lakes Water Authority**  
**Water System Construction Work-in-Progress (CWIP) FY 2022 Rollforward Summary By Jurisdiction**  
**Unaudited Activity For the Fiscal Quarter Ended December 31st, 2021**

<b>Jurisdiction</b>	<b>Total Project Plan Estimate from FY 2022-2026 CIP</b>	<b>CWIP Balance July 1, 2021</b>	<b>FY 2022 Board Approved CIP</b>	<b>FY 2022 Board Approved CIP With Project Amendments</b>	<b>FY 2022 Activity through December 31, 2021</b>	<b>CWIP Balance December 31, 2021</b>
City of Detroit	\$ 603,366,840	\$ 58,438,128	\$ 37,084,101	\$ 37,571,302	\$ 30,752,577	\$ 87,512,472
Lapeer County	5,937,124	1,154,458	3,962,267	3,962,267	175,127	1,329,585
Mutiple Counties	386,207,886	40,301,434	17,176,543	15,617,734	14,291,507	47,408,086
Oakland County	276,954,686	19,579,122	55,618,942	55,810,594	10,058,737	29,637,859
Saint Clair County	199,416,920	13,545,671	10,660,756	11,633,756	2,422,783	7,101,350
Wayne County - Outside Detroit	881,825,559	71,834,216	54,707,871	55,383,279	26,501,218	98,086,316
<b>Grand Total</b>	<b>\$ 2,353,709,015</b>	<b>\$ 204,853,029</b>	<b>\$ 179,210,481</b>	<b>\$ 179,978,933</b>	<b>\$ 84,201,950</b>	<b>\$ 271,075,668</b>



**Great Lakes Water Authority  
Wastewater System Construction Work-in-Progress (CWIP) FY 2022 Rollforward Summary By Jurisdiction  
Unaudited Activity For the Fiscal Quarter Ended December 31st, 2021**

<b>Jurisdiction</b>	<b>Total Project Plan Estimate from FY 2022-2026 CIP</b>	<b>CWIP Balance July 1, 2021</b>	<b>FY 2022 Board Approved CIP</b>	<b>FY 2022 Board Approved CIP With Project Amendments</b>	<b>FY 2022 Activity through December 31, 2021</b>	<b>CWIP Balance December 31, 2021</b>
City of Detroit	\$ 1,311,840,369	\$ 165,620,802	\$ 73,893,106	\$ 78,066,106	\$ 23,925,700	\$ 183,868,459
Mutiple Counties	422,491,975	24,943,729	32,156,934	31,156,934	8,160,553	32,064,016
Wayne County - Outside Detroit	47,820,767	555,754	-	-	19,037	574,791
<b>Grand Total</b>	<b>\$ 1,782,153,110</b>	<b>\$ 191,120,285</b>	<b>\$ 106,050,041</b>	<b>\$ 109,223,041</b>	<b>\$ 32,105,290</b>	<b>\$ 216,507,265</b>

**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 CA&FR 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 2022 2nd quarter for the following projects:

<u>Project</u>	<u>Contract</u>	<u>Description</u>
111007	1803823	LHWTP: Raw Sludge Clarifier & Pumping
112005	1901036	NEWTP: Steel Cover Replacement
122003	Land Acquisition	WWP to NE Transmission Main
212004	CON-238	Chlor/Dechlor Process Improvements
232002	Land Acquisition	Freud & Connor Creek Pump Station Improvements

**\$271.1** million is in CWIP as of December 31, 2021, as shown for the Water System in B1.

**\$216.5** million is in CWIP as of December 31, 2021, as shown for the Wastewater System in B2. The order of these appendices on the subsequent pages are in ascending order by CIP project number.

**Great Lakes Water Authority**  
**Water System Construction Work-in-Progress (CWIP) FY 2022 Rollforward**  
**Unaudited Activity For the Fiscal Quarter Ended December 31, 2021**

Project	Project Name	Total Project Plan		FY 2022 Board Approved CIP	FY 2022 Board Approved CIP	FY 2022 Board With Project Amendments	FY 2022 Activity through December 31, 2021	Life to Date Capitalization / Expense through December 31, 2021		Life to Date Activity Through December 31, 2021	Life to Date Activity / Total Project Plan Estimate
		Estimate from FY 2022-2026 CIP	CWIP Balance July 1, 2021					CWIP Balance December 31, 2021	CWIP Balance December 31, 2021		
111001	Energy Management: Lake Huron Water Treatment Plant Low Lift Pumping Improvements	\$ 57,178,250	\$ 1,897,571	\$ 1,962,266	1,962,266	\$ 662,979	\$ -	\$ 2,560,550	\$ 2,560,550	4%	
111002	LHWTP Backflow Replacement	\$ 8,705,313	\$ -	\$ -	\$ -	\$ -	\$ 8,717,768	\$ -	\$ 8,717,768	100%	
111004	Electrical Tunnel Rehabilitation at Lake Huron WTP	3,892,689	-	-	-	-	3,892,299	-	3,892,299	100%	
111006	Replacement of Filter Instrumentation and Raw Water Flow Metering Improvements at Lake	16,789,745	1,273,880	5,196,046	5,196,046	4,861	-	1,278,741	1,278,741	8%	
111007	Lake Huron WTP-Raw Sludge Clarifier and Raw Sludge Pumping System Improvements	9,181,107	8,448,408	184,222	184,222	418,696	8,867,103	-	8,867,103	97%	
111008	LHWTP Architectural Programming - Lab	1,196,283	-	-	-	-	-	-	-	0%	
111009	Lake Huron WTP-35 MGD HLP, Flow Meters	30,480,734	1,726,061	1,061,103	1,061,103	558,801	-	2,284,863	2,284,863	7%	
111010	Lake Huron Water Treatment Plant - Filtration and Pretreatment Improvements	42,206,783	-	-	-	-	-	-	-	0%	
111011	Lake Huron WTP Pilot Plant	3,247,998	198,694	1,719,487	1,719,487	639,883	-	838,577	838,577	26%	
111012	LHWTP-Flocculation Improvements	26,538,016	1,057	537,632	1,510,632	137,563	-	138,620	138,620	1%	
112002	Low Lift Pumping Plant Caisson Rehabilitation at Northeast WTP	1,172,880	-	-	-	-	1,169,962	-	1,169,962	100%	
112003	NE WTP High Lift Pumping Electrical	71,545,621	223,875	173,058	173,058	214,895	-	438,769	438,769	1%	
112005	Northeast Water Treatment Plant - Replacement of Covers for Process Water Conduits	1,088,655	937,879	4,892	4,892	-	937,879	-	937,879	86%	
112006	Northeast Water Treatment Plant Flocculator Replacements	11,316,013	254,450	2,521,861	2,521,861	6,128	-	260,578	260,578	2%	
113001	Southwest Water Treatment Plant, Sludge Treatment & Waste Wash water Treatment Facilit	-	-	-	-	6,300	171,079	6,300	177,379	0%	
113002	High Lift Pump Discharge Valve Actuators Replacement at Southwest WTP	6,728,375	-	501,031	501,031	-	5,798,535	-	5,798,535	86%	
113003	Replacement of Butterfly Valves	21,811,953	110	-	-	(110)	-	-	-	0%	
113006	SW WTP Chloring Scrubber	7,330,660	204,126	4,683,170	2,805,737	384,905	-	589,031	589,031	8%	

**Great Lakes Water Authority**  
**Water System Construction Work-in-Progress (CWIP) FY 2022 Rollforward**  
**Unaudited Activity For the Fiscal Quarter Ended December 31, 2021**

Project	Project Name	Total Project Plan Estimate from FY 2022-2026 CIP	CWIP Balance July 1, 2021	FY 2022 Board Approved CIP	FY 2022 Board Approved CIP With Project Amendments	FY 2022 Activity through December 31, 2021	Life to Date Capitalization / Expense through December 31, 2021	CWIP Balance December 31, 2021	Life to Date Activity Through December 31, 2021	Life to Date Activity / Total Project Plan Estimate
113007	Architectural and Building Mechanical Springwells Water Treatment Plant 1958 Filter Rehabilitation and Auxiliary	3,167,022	-	-	-	-	-	-	-	0%
114001	Facilities	80,828,071	-	-	-	-	99,764,892	-	99,764,892	123%
114002	Springwells Water Treatment Plant - Low Lift and High Lift Pump Station	224,221,541	12,944,042	16,546,006	16,546,006	6,664,355	-	19,608,397	19,608,397	9%
114003	Water Production Flow Metering Improvements at NE, SW, and SPW WTP	8,155,919	0	-	-	1,048	8,167,884	1,048	8,168,932	100%
114005	Springwells WTP Admin Building Improvements	9,259,571	1,178,639	3,660,252	3,660,252	17,156	-	1,195,794	1,195,794	13%
114006	Replacement of Rapid Mix Units at Springwells WTP 1958 Process Train	-	10,674	-	-	-	1,021,039	10,674	1,031,712	0%
114007	Powder Activated Carbon Systems	4,020,591	-	-	-	-	-	-	-	0%
114008	1930 Sedimentation Basin Sluice Gates, Guides & Hoists Improvements at Springwells WTP	13,923,254	11,142,286	2,484,952	2,484,952	54,434	-	11,196,720	11,196,720	80%
114010	Yard Piping Improvements	200,471,687	531,529	1,568,415	1,568,415	551,228	-	1,082,757	1,082,757	1%
114011	Steam, Condensate Return, and Compressed Air Piping Improvements at Springwells WTP	25,540,354	18,464,648	5,373,516	5,373,516	4,599,238	249,118	22,814,768	23,063,886	90%
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	4,923,914	-	-	-	-	4,706,751	-	4,706,751	96%
114016	Springwells Water Treatment Plant 1958 Settled Water Conduits Concrete Pavement Replacement	2,280,781	428,322	566,115	901,115	885,938	-	1,314,259	1,314,259	58%
114017	Springwells Water Treatment Plant Flocculator Drive Replacement	12,358,115	189,943	370,545	370,545	268,579	-	458,522	458,522	4%
114018	Springwells Water Treatment Plant - Service Building Electrical Substation and Miscellaneous Improvements	1,544,706	-	80,013	80,013	-	-	-	-	0%

**Great Lakes Water Authority**  
**Water System Construction Work-in-Progress (CWIP) FY 2022 Rollforward**  
**Unaudited Activity For the Fiscal Quarter Ended December 31, 2021**

Project	Project Name	Total Project Plan Estimate from FY 2022-2026 CIP	CWIP Balance July 1, 2021	FY 2022 Board Approved CIP	FY 2022 Board Approved CIP With Project Amendments	FY 2022 Activity through December 31, 2021	Life to Date Capitalization / Expense through December 31, 2021	CWIP Balance December 31, 2021	Life to Date Activity Through December 31, 2021	Life to Date Activity / Total Project Plan Estimate
115001	Yard Piping, Valves and Venturi Meters Replacement at Water Works Park	54,815,232	5,749,771	6,321,527	6,808,728	3,671,177	-	9,420,948	9,420,948	17%
115003	Comprehensive Condition Assessment at Waterworks Park WTP	514,004	-	-	-	-	-	-	-	0%
115004	Water Works Park WTP Chlorine System Upgrade	6,892,656	9,563	-	-	-	6,957,032	9,563	6,966,596	101%
115005	WWP WTP Building Ventilation Improvements	4,923,595	563,444	522,778	522,778	174,776	-	738,219	738,219	15%
115006	Water Works Park Site/Civil Improvements	5,881,718	-	-	-	-	-	-	-	0%
115007	Water Works Park High Lift Pumping Station Modernization	88,946,247	-	280,105	280,105	-	-	-	-	0%
116002	Pennsylvania, Springwells and Northeast Raw Water Supply Tunnel Improvements based on	94,880,203	25,947,664	8,359,585	8,359,585	11,351,470	4,685,231	37,299,134	41,984,366	44%
116005	Belle Isle Seawall Rehabilitation	1,831,677	-	318,843	318,843	702	-	702	702	0%
116006	Belle Isle Intake System Rehabilitation and Improvements	350,000	-	-	-	-	-	-	-	0%
122003	New Waterworks Park to Northeast Transmission Main	143,217,044	21,324,515	14,593,187	14,593,187	10,037,551	740,355	30,621,711	31,362,066	22%
122004	96-inch Main Relocation, Isolation Valves Installations, and New Parallel Main	144,852,077	9,673,781	2,576,909	2,576,909	2,549,392	-	12,223,173	12,223,173	8%
122005	Replacement Schoolcraft Watermain	15,325,893	6,260,526	7,606,560	7,606,560	7,562,052	-	13,822,578	13,822,578	90%
122006	Transmission System Water Main Work-Wick Road Parallel Water Main	22,419,614	17,132,964	4,773,529	5,322,561	3,799,709	-	20,932,674	20,932,674	93%
122007	Design and Construction of a new Newburgh Road 24" Main along Newburgh Road between Ch	22,154,359	1,805	26,909	26,909	(1,805)	-	-	-	0%
122011	Park-Merriman Water Main-Final Phase	9,600,066	295,202	7,836	7,836	404,976	6,435,948	700,177	7,136,125	74%
122012	36-inch Water Main in Telegraph Road	9,870,398	-	-	-	-	9,986,284	-	9,986,284	101%
122013	Lyon Township Transmission Main Extension Project	105,180,009	9,960,713	37,593,404	37,785,056	3,963,676	357,808	13,924,389	14,282,197	14%
122016	Downriver Transmission Loop	37,067,100	1,620,310	664,877	664,877	604,883	-	2,225,193	2,225,193	6%

**Great Lakes Water Authority**  
**Water System Construction Work-in-Progress (CWIP) FY 2022 Rollforward**  
**Unaudited Activity For the Fiscal Quarter Ended December 31, 2021**

Project	Project Name	Total Project Plan Estimate from FY 2022-2026 CIP	CWIP Balance July 1, 2021	FY 2022 Board Approved CIP	FY 2022 Board Approved CIP With Project Amendments	FY 2022 Activity through December 31, 2021	Life to Date Capitalization / Expense through December 31, 2021	CWIP Balance December 31, 2021	Life to Date Activity Through December 31, 2021	Life to Date Activity / Total Project Plan Estimate
122017	7 Mile/Nevada Transmission Main Rehab and Carrie/Nevada Flow Control Station	60,188,759	1,454,251	1,943,731	1,943,731	3,672,375	-	5,126,626	5,126,626	9%
122018	Garland, Hurlbut, Bewick Water Transmission System Rehabilitation	54,102,536	-	1,530,061	1,530,061	336,050	-	336,050	336,050	1%
132003	Isolation Gate Valves for Line Pumps for West Service Center Pumping Station	1,961,708	-	-	-	-	1,742,479	-	1,742,479	89%
132006	Pressure and Control Improvements at the Electric, Ford Road, Michigan, and West Chica	3,363,699	-	-	-	1,731	3,226,045	1,731	3,227,776	96%
132007	Energy Management: Freeze Protection Pump Installation at Imlay Pumping Station	5,187,314	927,112	3,962,267	3,962,267	175,127	-	1,102,240	1,102,240	21%
132008	Needs Assessment Study for all Water Booster Pumping Stations	1,675,441	-	-	-	-	-	-	-	0%
132010	West Service Center/Duval Rd Division Valve Upgrades	45,142,158	9,058,202	17,149,461	17,149,461	6,086,841	-	15,145,043	15,145,043	34%
132012	Ypsilanti PS Improvements	35,393,046	515,125	584,384	584,384	92,976	-	608,101	608,101	2%
132014	Adams Road Booster Pumping Improvements	52,864,694	83,262	203,019	203,019	-	-	83,262	83,262	0%
132015	Newburgh BPS	45,044,000	444,073	733,037	733,037	27,865	-	471,937	471,937	1%
132016	North Service Center BPS Improvements	68,255,116	363,478	673,058	673,058	8,221	-	371,700	371,700	1%
132018	Schoolcraft BPS	47,317	47,317	-	-	-	-	47,317	47,317	100%
132019	Wick Road BPS - Switchgear	9,358,231	56,912	-	-	-	-	56,912	56,912	1%
132020	Franklin BPS - Isolation Gate Valves	2,544,535	93,160	-	-	-	-	93,160	93,160	4%
132021	Imlay BPS - Replace VFDs, Pumps & Motors	749,810	227,346	-	-	-	-	227,346	227,346	30%
132022	Joy Road BPS - Replace Reservoir Pumps	39,613,214	71,380	276,909	276,909	-	-	71,380	71,380	0%
132025	Northwest Booster Station Yard Piping Improvements	-	20,306	-	-	-	-	20,306	20,306	0%
132026	Franklin Pumping Station Valve Replacement	1,006,467	-	-	-	-	975,327	-	975,327	97%
170102	Water Production Plant Flow Metering Improvements at NE, SP & SW WTP	372,374	373,640	-	-	-	-	373,640	373,640	100%

**Great Lakes Water Authority**  
**Water System Construction Work-in-Progress (CWIP) FY 2022 Rollforward**  
**Unaudited Activity For the Fiscal Quarter Ended December 31, 2021**

Project	Project Name	Total Project Plan Estimate from FY 2022-2026 CIP	CWIP Balance July 1, 2021	FY 2022 Board Approved CIP	FY 2022 Board Approved CIP With Project Amendments	FY 2022 Activity through December 31, 2021	Life to Date Capitalization / Expense through December 31, 2021	CWIP Balance December 31, 2021	Life to Date Activity Through December 31, 2021	Life to Date Activity / Total Project Plan Estimate
170109	Inspection of Raw Water Intakes and Tunnels	1,656,069	-	-	-	-	-	-	-	0%
170120	Phosphoric Acid Feed System Improvements at Southwest WTP	1,625	-	-	-	-	634,509	-	634,509	39047%
170200	As Needed Construction Materials, Environmental Media and Special Allowance	1,427,227	-	146	146	-	-	-	-	0%
170300	Water Treatment Plant Automation Program	13,249,000	9,000	6,151,000	4,482,191	(9,000)	-	-	-	0%
170301	Water Plant Automation	-	1,755,142	-	-	-	-	1,755,142	1,755,142	0%
170302	SW WTP SCADA Improvements	9,000,000	74,413	3,605,928	5,274,737	576,808	-	651,220	651,220	7%
170303	WWP WTP Power Monitoring Installation	1,700,000	203,628	514,474	514,474	1,158,539	-	1,362,167	1,362,167	80%
170304	WWP WTP SCADA Upgrade	-	13,947	-	-	128,914	-	142,860	142,860	0%
170400	Water Transmission Improvement Program	33,171,211	-	1,033,961	1,033,961	-	-	-	-	0%
170401	Emergency Bypass Around Ypsilanti Station	1,661,231	-	-	-	-	2,633,282	-	2,633,282	159%
170500	Transmission System Valve Assessment and Rehabilitation/Replacement Program	5,350,164	-	232,066	42,066	-	-	-	-	0%
170502	Transmission System Valve Assessment and Rehabilitation/Replacement A	-	-	-	-	(1,048)	7,689,584	(1,048)	7,688,536	0%
170503	Transmission System Valve Assessment and Rehabilitation/Replacement B	10,071,663	2,110,241	1,304,975	1,304,975	(9,619)	-	2,100,621	2,100,621	21%
170504	Repair of WTM, Valves, & Priority Repair	-	-	-	190,000	6,852,140	-	6,852,140	6,852,140	0%
170600	Water Transmission Main Asset	8,438,215	-	24,218	24,218	-	-	-	-	0%
170800	Reservoir Inspection, Design and Rehabilitation Program	23,827,344	-	321,527	321,527	-	-	-	-	0%
170801	Reservoir Inspection, Design and Rehabilitation	15,090,049	11,457,639	463,000	573,000	3,320,178	7,184,856	7,592,962	14,777,817	98%
170900	Suburban Water Meter Pit Rehabilitation and Meter Replacement Program	40,718,957	-	1,159,000	1,159,000	-	-	-	-	0%

**Great Lakes Water Authority**  
**Water System Construction Work-in-Progress (CWIP) FY 2022 Rollforward**  
**Unaudited Activity For the Fiscal Quarter Ended December 31, 2021**

Project	Project Name	Total Project Plan Estimate from FY 2022-2026 CIP	CWIP Balance July 1, 2021	FY 2022 Board Approved CIP	FY 2022 Board Approved CIP With Project Amendments	FY 2022 Activity through December 31, 2021	Life to Date Capitalization / Expense through December 31, 2021	CWIP Balance December 31, 2021	Life to Date Activity Through December 31, 2021	Life to Date Activity / Total Project Plan Estimate
170901	Suburban Water Meter Pit Rehabilitation and Meter Replacement	10,616,499	8,531,114	2,838,297	2,838,297	719,886	-	9,251,000	9,251,000	87%
170902	Brownstown Meter Pit Rehabilitation	1,245,254	219,873	593,887	593,887	-	-	219,873	219,873	18%
171500	Roof Replacement - Var Facilities Program	22,710,989	-	10,764	10,764	-	-	-	-	0%
171501	Roof Replacements - Var Facilities Program	3,484,352	-	-	-	-	3,354,843	-	3,354,843	96%
331003	Masonry Replacement and Rehabilitation	25,000,000	-	-	-	-	-	-	-	0%
341001	Security Infrastructure Improvements	9,169,807	8,139,352	567,392	567,392	868,531	1,138,691	9,007,883	10,146,574	111%
351001	Water Facility Lighting Renovations	699,523	6,667	37,632	37,632	-	-	6,667	6,667	1%
380600	General Engineering Services Allowance	55,126	-	-	-	-	-	-	-	0%
380700	As-needed Engineering Services for Concrete Testing, Geotechnical Soil Borings, other Testing Services, and Related Services Allowance	2,130,722	-	455,655	455,655	-	-	-	-	0%
381000	Energy Management: Electric Metering Improvement Program	2,623,926	-	-	-	-	-	-	-	0%
<b>Grand Total</b>		<b>\$ 2,353,709,015</b>	<b>\$ 204,853,029</b>	<b>\$ 179,210,481</b>	<b>179,978,933</b>	<b>\$ 84,201,950</b>	<b>\$ 279,799,185</b>	<b>\$ 271,075,668</b>	<b>\$ 550,874,853</b>	<b>23%</b>
					<b>Project Amendments: \$ 768,452</b>					



**Great Lakes Water Authority**  
**Wastewater System Construction Work-in-Progress (CWIP) FY 2022 Rollforward**  
**Unaudited Activity For the Fiscal Quarter Ended December 31, 2021**

Project	Project Name	Total Project Plan		FY 2022 Board Approved CIP	FY 2022 Board Approved CIP	FY 2022 With Project Amendments	FY 2022 Activity through December 31, 2021	Life to Date Capitalization / Expense Through		Life to Date Activity through December 31, 2021	Life to Date Activity / Total Project Plan Estimate
		Estimate from FY 2022-2026 CIP	CWIP Balance July 1, 2021					December 31, 2021	December 31, 2021		
211001	Rehabilitation of Primary Clarifiers Rectangular Tanks, Drain Lines, Electrical/Mechanical Building and Pipe Gallery	\$ 54,061,159	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 54,748,738	\$ -	\$ 54,748,738	101%
211002	Pump Station No. 2 Pumping Improvments	3,340,152	2,517,234	-	-	24,550	-	2,541,784	2,541,784	76%	
211004	Pump Station 1 Rack & Grit and MPI	23,295,382	27,865,682	-	-	23,977	-	27,889,660	27,889,660	120%	
211005	Sampling Station 1 Improvements	13,797,096	2,176	-	-	-	-	2,176	2,176	0%	
211006	Pump Station No. 2 Improvements	68,709,404	3,491,519	3,060,848	3,060,848	479,020	-	3,970,539	3,970,539	6%	
211007	Replacement of Bar Racks and Grit Collection System at Pump Station No. 2	76,228,576	1,509,443	2,303,172	2,303,172	1,398,375	-	2,907,818	2,907,818	4%	
211008	Rehabilitation of Ferric Chloride Feed systems at the Pump Station -1 and Complex B Sludge Lines	11,387,944	1,870,766	5,358,083	7,431,083	1,417,807	-	3,288,572	3,288,572	29%	
211009	Rehabilitation of the Circular Primary Clarifier Scum Removal System	13,007,908	39,674	476,043	476,043	1,296	-	40,970	40,970	0%	
211010	Rehabilitation of Sludge Processing Complexes A and B	13,934,471	94,270	-	-	67	-	94,337	94,337	1%	
211011	WRRF PS1 Screening and Grit Improvements	93,303,153	-	-	-	-	-	-	-	0%	
212003	Aeration System Improvements	14,643,450	-	-	-	-	16,524,875	-	16,524,875	113%	
212004	ProjectChlorination/Dechlorination Process Equipment Improvements	5,742,203	5,642,328	-	-	8,173	5,652,101	(1,600)	5,650,501	98%	
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	49,871,040	2,247	9,900	9,900	156	-	2,404	2,404	0%	
212008	WRRF Rehabilitation of Intermediate Lift	81,931,310	583,363	2,566,737	2,566,737	163,795	-	747,158	747,158	1%	
212009	WRRF Aeration Improvements 3 and 4	73,588,564	-	-	-	-	-	-	-	0%	
212010	WRRF Conversion of Disinfection of all Flow to Sodium Hypochlorite and Sodium Bisulfite	5,765,452	-	-	-	-	-	-	-	0%	
213006	Improvements to Sludge Feed Pumps at Dewatering Facilities	4,489,934	194,357	342,468	342,468	58,272	-	252,628	252,628	6%	

**Great Lakes Water Authority**  
**Wastewater System Construction Work-in-Progress (CWIP) FY 2022 Rollforward**  
**Unaudited Activity For the Fiscal Quarter Ended December 31, 2021**

Project	Project Name	Total Project Plan Estimate from FY 2022-2026 CIP	CWIP Balance July 1, 2021	FY 2022 Board Approved CIP	FY 2022 Board Approved CIP With Project Amendments	FY 2022 Activity through December 31, 2021	Life to Date Capitalization / Expense Through December 31, 2021	CWIP Balance December 31, 2021	Life to Date Activity through December 31, 2021	Life to Date Activity / Total Project Plan Estimate
213007	Construction of the Improved Sludge Conveyance and Lighting System at the WWTP	22,162,273	20,120,012	2,499,064	2,499,064	1,383,593	-	21,503,604	21,503,604	97%
213008	Rehabilitation of the Wet and Dry Ash Handling Systems	8,432,039	151,058	295,324	295,324	-	-	151,058	151,058	2%
214001	Relocation of Industrial Waste Division and Analytical Laboratory Operations	12,651,082	11,949,799	-	-	68,124	2,282,260	12,017,924	14,300,183	113%
216004	Rehabilitation of Various Sampling Sites and PS# 2 Ferric Chloride System at WWTP	6,645,397	3,070,854	75,940	75,940	994,032	-	4,064,886	4,064,886	61%
216006	Rehabilitation of the Screened Final Effluent (SFE) Pump Station and Secondary Water System	23,874,377	1,038,944	558,406	558,406	1,810,909	-	2,849,852	2,849,852	12%
216007	DTE Primary Electric 3rd Feed Supply Line to the WRRF	4,544,429	3,380,783	393,514	393,514	18,219	543,500	3,399,002	3,942,502	87%
216008	Rehabilitation of Screened Final Effluent (SFE) Pump Station	40,820,651	262,035	906,386	906,386	675,673	-	937,708	937,708	2%
216009	Logistics & Material Facility	164,904	-	-	-	-	-	-	-	0%
216010	WRRF Facility Optimization	10,270,771	-	57,420	57,420	-	-	-	-	0%
216011	WRRF Structural Improvements	12,333,080	-	2,051,568	2,051,568	7,342	-	7,342	7,342	0%
216012	WRRF Research Facility	-	-	-	-	3,173	3,173	-	3,173	0%
222001	Intercommunity Relief Sewer Modifications in Detroit Oakwood District	53,397,144	475,416	790,559	790,559	611,949	-	1,087,365	1,087,365	2%
222002	Detroit River Interceptor Evaluation and Rehabilitation	72,775,106	37,097,586	11,191,618	11,191,618	1,839,492	-	38,937,078	38,937,078	54%
222004	Collection System Valve Remote Operation Structures Improvements	-	4,246	-	-	-	-	4,246	4,246	0%
232001	Fairview Pumping Station - Replace Four Sanitary Pumps	40,073,406	30,371,550	12,781,009	12,781,009	6,024,371	-	36,395,921	36,395,921	91%
232002	Freud and Connor Creek Pump Station Improvements	229,278,758	4,582,109	3,357,420	3,357,420	3,896,759	6,000,596	8,456,099	14,456,695	6%
232004	CONDITION ASSESSMENT AT BLUE HILL PUMP STATION	257,420	-	-	-	-	-	-	-	0%
233003	Rouge River In-system Storage Devices	46,317,488	-	-	-	-	-	-	-	0%
260200	Sewer and Interceptor Evaluation and Rehabilitation Program	53,748,897	-	-	-	-	-	-	-	0%
260201	Conveyance System Interceptor Rehab	32,282,349	10,587,039	1,479,167	1,479,167	2,483,274	18,542,127	13,070,313	31,612,440	98%

**Great Lakes Water Authority**  
**Wastewater System Construction Work-in-Progress (CWIP) FY 2022 Rollforward**  
**Unaudited Activity For the Fiscal Quarter Ended December 31, 2021**

Project	Project Name	Total Project Plan	CWIP Balance July 1, 2021	FY 2022	FY 2022 Board	FY 2022 Activity through December 31, 2021	Life to Date	CWIP Balance December 31, 2021	Life to Date Activity	Life to Date
		Estimate from FY 2022-2026 CIP		Board Approved CIP	Approved CIP With Project Amendments		Capitalization / Expense Through December 31, 2021		through December 31, 2021	Activity / Total Project Plan Estimate
260202	Conveyance System Interceptor Rehab	-	1,904	-	-	-	-	1,904	1,904	0%
260204	Energy Services for Rehabilitation of Conveyance Sewer System	52,157,408	943,846	11,646,299	11,646,299	534,806	-	1,478,652	1,478,652	3%
260205	NWI Outfall Rehabilitation	10,937,891	267,139	5,045,936	5,045,936	48,127	-	315,267	315,267	3%
260206	Conveyance System Rehabilitation - Interceptors	47,821,376	22,180	7,045,936	7,045,936	131,356	-	153,536	153,536	0%
260207	Rehabilitation of Woodward Sewer System	-	1,229,440	-	-	209,616	-	1,439,056	1,439,056	0%
260500	CSO Outfall Rehab	5,000,000	-	832,953	832,953	-	-	-	-	0%
260504	Rehabilitation of Outfalls - Phase II	5,051,112	-	-	-	22,843	4,900,746	22,843	4,923,589	97%
260505	Rehabilitation of Outfalls - Phase IV	5,718,385	4,938,825	640,637	640,637	759,534	-	5,698,359	5,698,359	100%
260506	Pilot Regulator Orifice Expansion	-	78,641	-	-	-	-	78,641	78,641	0%
260508	B-39 Outfall Rehab	568,620	150,000	180,517	4,004,869	11,647	-	161,647	161,647	28%
260509	B-40 Outfall Rehab	88,500	77,621	-	-	4,687	-	82,308	82,308	93%
260510	Conveyance System Rehabilitation - Outfalls	48,863,036	34,594	7,709,560	3,885,208	510,822	-	545,416	545,416	1%
260600	CSO Facilities Improvements	126,400,000	-	1,000,000	-	-	-	-	-	0%
260601	Oakwood Drain Valve Improvements	864,218	-	-	-	-	804,574	-	804,574	93%
260602	CSO Fire Alarm System Improvements	997,619	-	-	-	-	997,619	-	997,619	100%
260603	Conner Creek CSO Basin Rehab	7,898,362	7,518,411	-	-	116,547	-	7,634,958	7,634,958	97%
260606	Puritan Fenkell Roof Replacement	346,540	-	-	-	-	346,540	-	346,540	100%
260607	Lieb SDF Electrical Improvements	1,032,687	(0)	-	-	-	1,032,508	(0)	1,032,508	100%
260608	Seven Mile RTB - Roof Replacement	496,699	-	-	-	-	496,699	-	496,699	100%
260609	Seven Mile RTB - Parking Lot / Sitework	416,597	-	-	-	-	429,557	-	429,557	103%
260610	Baby Creek MAU Replacement	275,151	-	-	-	-	275,151	-	275,151	100%
260611	HVAC Improvements At Lieb SDF	395,615	-	-	-	-	412,590	-	412,590	104%
260613	Baby Creek HVAC Improvements	587,628	529,906	-	-	15,494	-	545,401	545,401	93%
260614	CSO Facilities Structural Improvements	13,794,118	2,352,725	4,422,021	4,422,021	1,736,953	50,855	4,038,822	4,089,677	30%
260615	PF & Lieb CSO Facilities Site & Drainage Improvements	801,140	382,407	199,240	199,240	197,753	-	580,160	580,160	72%
260616	Baby Creek SCO Anchor & Wedge Improvements	782,863	-	-	-	-	770,114	-	770,114	98%
260617	St. Aubin Chemical Disinfection Improvements	6,966,364	417,052	387,420	387,420	742	-	417,795	417,795	6%
260618	Oakwood HVAC Improvements	3,966,512	370,525	3,235,005	5,335,005	772,172	-	1,142,697	1,142,697	29%
260619	Control System Upgrade At St. Aubin, Lieb and 7 Mile	116,179	62,766	-	-	-	-	62,766	62,766	54%
260620	Baby Creek Roof Replacement	640,500	25,848	-	-	2,333	-	28,180	28,180	4%

**Great Lakes Water Authority**  
**Wastewater System Construction Work-in-Progress (CWIP) FY 2022 Rollforward**  
**Unaudited Activity For the Fiscal Quarter Ended December 31, 2021**

Project	Project Name	Total Project Plan		FY 2022 Board		FY 2022 Activity through December 31, 2021	Life to Date		Life to Date Activity through December 31, 2021	Life to Date Activity / Total Project Plan Estimate
		Estimate from FY 2022-2026 CIP	CWIP Balance July 1, 2021	FY 2022 Board Approved CIP	Approved CIP With Project Amendments		Capitalization / Expense Through December 31, 2021	CWIP Balance December 31, 2021		
260621	Connor Creek Berm Improvements	-	284,034	-	-	1,640,215	-	1,924,249	1,924,249	0%
	CSO Facilities Emergency Generator									
260622	Improvements	-	893	-	-	4,127	-	5,020	5,020	0%
260623	Baby Creek Screen Rehabilitation	-	-	-	-	774	-	774	774	0%
	Sewer System Infrastructure									
260700	Improvements & Pumping Stations	35,901,492	-	3,660,745	3,660,745	-	-	-	-	0%
	Conveyance System Infrastructure									
260701	Improvements	4,586,079	1,384,239	1,356,302	1,356,302	406,068	-	1,790,306	1,790,306	39%
260702	Pump Station Assets Updates	669,000	-	-	-	-	-	-	-	0%
260901	Rehab. Hazmat Facility at WRRF	-	131,014	-	-	56,247	-	187,261	187,261	0%
260902	WRRF Renovation of 4th Floor	-	49,160	-	-	-	-	49,160	49,160	0%
270001	Pilot CSO Netting Facility	9,573,092	235	13,420	13,420	-	-	235	235	0%
	Meldrum Sewer Diversion and VR-15									
270002	Improvements	5,839,631	-	8,580	8,580	-	-	-	-	0%
270003	Long Term CSO Control Plan	9,267,841	5,596	3,798,606	3,798,606	952,593	958,189	-	958,189	10%
270004	Oakwood Lieb CSO Facility Improvement	-	3,564	-	-	10,438	-	14,002	14,002	0%
	Hubbell Southfield CSO Facility									
273001	Improvement	-	-	-	-	1,210	-	1,210	1,210	0%
	Leib Improvements for Meldrum									
274001	Diversion	10,941,804	-	254,232	254,232	-	-	-	-	0%
277001	Baby Creek Outfall Improvements Project	18,825,761	19,228	1,807,420	1,807,420	39,429	31,222	27,435	58,657	0%
	Oakwood Improvements for NWI									
278001	Diversion	10,225,804	-	251,772	251,772	-	-	-	-	0%
	Roofing Systems Replacement at GLWA									
	Wastewater Treatment Plant, CSO									
	Retention Treatment Basins (RTB) and									
331002	Screening Disinfection Facilities (SDF)	8,888,476	-	1,276,569	1,276,569	-	1,123,056	-	1,123,056	13%
341002	Security Infrastructure Improvements	3,533,510	2,934,004	722,226	722,226	387,277	-	3,321,281	3,321,281	94%
<b>Grand Total</b>		<b>\$ 1,782,153,110</b>	<b>\$ 191,120,285</b>	<b>\$ 106,050,041</b>	<b>\$ 109,223,041</b>	<b>\$ 32,105,290</b>	<b>\$ 353,542,906</b>	<b>\$ 216,507,265</b>	<b>\$ 570,050,171</b>	<b>32%</b>
				<b>Project Amendn</b>	<b>\$ 3,173,000</b>					

## **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 2022 Capital Improvement Plan.

**\$768,482** of Capital Reserve project amendments have been prepared as of December 31, 2021, as shown for the Water System in C1 with project amendments detailing the assignment of funding within Program and Allowance accounts.

**\$3,173,000** of Capital Reserve project amendments have been prepared as of December 31, 2021, as shown for the Wastewater system in C2 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  
Water System Project Amendment Summary  
Unaudited Activity For the Fiscal Quarter Ended December 31st, 2021**

<b>Project</b>	<b>Project Name</b>	<b>Capital Reserve</b>	<b>Program / Allowance</b>	<b>Grand Total</b>
<b>111012</b>	LHWTP-Flocculation Improvements	\$ 973,000		\$ 973,000
<b>113006</b>	SW WTP Chloring Scrubber	(1,877,433)		(1,877,433)
<b>114016</b>	Springwells Water Treatment Plant 1958 Settled Water Conduits Concrete Pavement Replacement	335,000		335,000
<b>115001</b>	Yard Piping, Valves and Venturi Meters Replacement at Water Works Park	487,201		487,201
<b>122006</b>	Transmission System Water Main Work-Wick Road Parallel Water Main	549,032		549,032
<b>122013</b>	Lyon Township Transmission Main Extension Project	191,652		191,652
<b>170300</b>	Water Treatment Plant Automation Program		(1,668,809)	(1,668,809)
<b>170302</b>	SW WTP SCADA Improvements		1,668,809	1,668,809
<b>170500</b>	Transmission System Valve Assessment and Rehabilitation/Replacement Program		(190,000)	(190,000)
<b>170504</b>	Repair of WTM, Valves, & Priority Repair		190,000	190,000
<b>170801</b>	Reservoir Inspection, Design and Rehabilitation	110,000		110,000
<b>Grand Total</b>		<b>\$ 768,452</b>	<b>\$ -</b>	<b>\$ 768,452</b>

**Great Lakes Water Authority  
Wastewater System Project Amendment Summary  
Unaudited Activity For the Fiscal Quarter Ended December 31, 2021**

<b>Project</b>	<b>Project Name</b>	<b>Capital Reserve</b>	<b>Program / Allowance</b>	<b>Grand Total</b>
<b>211008</b>	Rehabilitation of Ferric Chloride Feed systems at the Pump Station -1 and Complex B Sludge Lines	\$ 2,073,000		\$ 2,073,000
<b>260508</b>	B-39 Outfall Rehab		3,824,352	3,824,352
<b>260510</b>	Conveyence System Rehabilitation - Outfalls		(3,824,352)	(3,824,352)
<b>260600</b>	CSO Facilities Improvements		(1,000,000)	(1,000,000)
<b>260618</b>	Oakwood HVAC Improvements	1,100,000	1,000,000	2,100,000
<b>Grand Total</b>		\$ <b>3,173,000</b>	\$ <b>-</b>	\$ <b>3,173,000</b>