

# **Financial Services Audit Committee Communication**

Date: December 18, 2020

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

From: Andrew Sosnoski, Manager, Construction Accounting & Financial Reporting

**Re:** FY 2021 Q1 Construction Work-in-Progress Report through September 30, 2020

(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 2021 Q1 CWIP positions and provides a detailed snapshot to inform decision makers and stakeholders.

**Proposed Action:** Receive and file this report.



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

As of September 30, 2020

For questions, please contact:

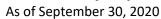
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## **Table of Contents**

Introduction	1
Water system	
Executive Summary	3
Construction Work-in-Progress Rollforward	2
FY 2021 Project Amendment Summary	9
Wastewater system	<b>1</b> 1
Executive Summary	11
Construction Work-in-Progress Rollforward	12
FY 2021 Project Amendment Summary	16





As of September 30, 2020

#### **December 18, 2020**

#### To Our Stakeholders:

The contents of this report represent the financial presentation of construction work-in-progress activity for the Great Lakes Water Authority (GLWA) as of September 30, 2020. The information in this report presents a detailed snapshot and is important as we track the execution of the FY 2021–2025 Capital Improvement Plan (CIP) and look to inform decision makers as we draft the FY 2022–2026 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**

This report is divided into two sections: one for the Water System and one for the Wastewater System as identified in the table of contents. Each section includes analysis and reporting of the following:

Executive Summary: Presentation of spend information is necessary to report our progress on CIP projects.

Construction Work-in-Progress Rollforward: This table provides a list of all projects in the CIP along with financial activity. This table may be used to revisit priorities, workload, and phasing.

*Project Amendment Summary:* The award of CIP contracts and the related execution thereof may result in deviations from the amount and timing of project activity. Project amendments are prepared to fund the related increase or decrease with either an adjustment to Capital Reserve or Program / Allowance accounts to amend the board approved fiscal year CIP accordingly and to inform decision makers in the development of future Capital Improvement Plans.



#### **Financial Information**

All project amounts are unaudited. This means that direct contractor costs are generally included in these totals with most pay estimates entered through September 30, 2020. 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.



### **WATER SYSTEM**

### **Executive Summary**

The rate of spend is a key performance indicator. The development of the FY 2021-2025 and related CIP Plan for FY 2021 were based on anticipation of FY 2021 activity resulting in 75% of planned spend. The Water System spend for the period ending September 30, 2020 is 74.4% of the FY 2021 pro-rated board approved CIP, 74.3% of the pro-rated FY 2021 board approved CIP with project amendments, and 99.2% of the FY 2021 Capital Spending Rate Assumption (SRA). Detailed analysis of the projects for which FY 2021 Board Approved CIP was amended from \$147,564,000 to \$147,705,782 is provided in the subsequent Project Amendment Summary section of this report.

Water System Projects	FY 2020	FY 2020 Activity	FY 2020 Percentage	FY 2021	(	FY 2021 Prorated Three Months)		FY 2021 Activity (Unaudited)	FY 2021 Percentage
FY 2020 Board Approved CIP FY 2020 Board Approved CIP With Project Amendments FY 2020 Capital Spend Rate Assumption (SRA)	\$ 143,247,000 124,916,757 107,435,250	\$ 76,542,465 76,542,465 76,542,465	53.4% 61.3% 71.2%						
FY 2021 Board Approved CIP FY 2021 Board Approved CIP With Project Amendments FY 2021 Capital Spend Rate Assumption (SRA)				\$ 147,564,000 147,705,782 110,673,000	•	36,891,000 \$ 36,926,446 27,668,250	;	27,452,121 27,452,121 27,452,121	74.4% 74.3% 99.2%





### **Construction Work-in-Progress Rollforward**

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. Although no projects were capitalized during FY 2021 Q1 a number of projects are anticipated to be capitalized in FY 2021 Q2 and will be identified in subsequent reports.

\$153.6 million is in CWIP as of September 30, 2020 as shown in the table beginning on the next page.

The order of the report on the subsequent pages is in ascending order by CIP project number.



**Great Lakes Water Authority** 

Unaudited Activity For the Fiscal Quarter Ended September 30, 2020

## Water System Construction Work-in-Progress (CWIP) FY 2021 Rollforward

### **Water System Construction Work-in-Progress Quarterly Report**

					FY 2021 Board		Life to date			Life to date
		Total Project Plan		FY 2021	Approved CIP	FY 2021	Capitalization		Life to date	Activity /
		Estimate from	CWIP Balance	Board	With Project	Activity through	Through	CWIP Balance	Activity Through	Total Project
Project	Project Name	FY 2021 - 2025 CIP	July 1, 2020	Approved CIP	Amendments	September 30, 2020	September 30, 2020	September 30, 2020	September 30, 2020	Plan Estimate
	Energy Management: Lake Huron Water									
111001	Treatment Plant Low Lift Pumping	FF 000 000	212.024	1 626 000	1 (2( 000	207 200		500 242	F00 242	10/
111001 111002	Improvements  LHWTP Backflow Replacement	55,090,000 9,004,000	212,034 8,529,804	1,636,000 41,000	1,636,000 41,000	387,208 28,426	155,348	599,242 8,558,230	599,242 8,713,578	1% 97%
111002	Electrical Tunnel Rehabilitation at Lake Huron	9,004,000	0,329,004	41,000	41,000	20,420	155,546	0,330,230	0,/13,3/0	97%
111004	WTP	4,136,000	390		_	(390)	3,892,299	_	3,892,299	94%
111004	***	4,130,000	350			(330)	3,632,233		3,632,233	3470
	Replacement of Filter Instrumentation and Raw									
111006	Water Flow Metering Improvements at Lake	16,626,000	1,073,466	235,000	235,000	4,175	_	1,077,641	1,077,641	6%
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	Lake Huron WTP-Raw Sludge Clarifier and Raw									
111007	Sludge Pumping System Improvements	8,937,000	5,887,651	3,392,000	3,392,000	961,538	-	6,849,189	6,849,189	77%
111008	LHWTP Architectural Programming - Lab	1,299,000	110	-	-	(110)	-	-	-	0%
111009	Lake Huron WTP-35 MGD HLP, Flow Meters	29,226,000	116,755	1,856,000	1,856,000	6,411	-	123,166	123,166	0%
	Lake Huron Water Treatment Plant -Filtration									
	and									
111010	Pretreatment Improvements	5,632,000	-	-	-	-	-	-	-	0%
111011	Lake Huron WTP Pilot Plant	1,794,000	-	-	-	-	-	-	-	0%
	Yard Piping Replacement at Northeast Water									
112001	Treatment Plant	-	-	-	-	155	-	155	155	100%
	Low Lift Pumping Plant Caisson Rehabilitation at									
112002	Northeast WTP	1,345,000	2,918	-	-	(2,918)	1,169,962	-	1,169,962	87%
112003	NE WTP High Lift Pumping Electrical	57,565,000	5,785	-	-	3,331	-	9,116	9,116	0%
44000	Northeast Water Treatment Plant - Replacement		420.462	1 000 000	4 005 000	44.660		102.125	100 105	250/
112005	of Covers for Process Water Conduits	1,393,000	438,463	1,096,000	1,096,000	44,662	-	483,125	483,125	35%
112006	Northeast Water Treatment Plant Flocculator	7 111 000	100 274	2 772 000	2 772 000	24.000		210.154	210 154	3%
112006	Replacements Southwest Water Treatment Plant, Sludge	7,111,000	186,274	2,773,000	2,773,000	31,880	-	218,154	218,154	3%
	Treatment & Waste Wash water Treatment									
113001	Facilit	_	341,324		_	_		341,324	341,324	100%
113001	High Lift Pump Discharge Valve Actuators		341,324					341,324	341,324	10070
113002	Replacement at Southwest WTP	5,886,000	5,272,232	1,094,000	1,094,000	373,226	_	5,645,458	5,645,458	96%
113003	Replacement of Butterfly Valves	14,314,000	110	-	-	-	-	110	110	0%
	Residual Handling Facility's Decant Flow	.,==.,=30						-10	_10	2,0
113004	Modifications at Southwest WTP	822,000	1,822	-	-	-	853,219	1,822	855,041	104%
113006	SW WTP Chloring Scrubber	4,753,000	129,973	260,000	260,000	27,450	-	157,423	157,423	3%
113007	Architectural and Building Mechanical	98,000	-	-	-	-	-	-	-	0%
	Springwells Water Treatment Plant 1958 Filter									
114001	Rehabilitation and Auxiliary Facilities	101,968,000	-	-	-	-	99,764,892	-	99,764,892	98%
	Springwells Water Treatment Plant - Low Lift and	1								
114002	High Lift Pump Station	174,835,000	5,496,115	7,113,000	7,113,000	793,704	-	6,289,818	6,289,818	4%
	Water Production Flow Metering Improvements									
114003	at NE, SW, and SPW WTP	8,482,000	8,185,528	-	-	21,233	-	8,206,761	8,206,761	97%
114005	Springwells WTP Admin Building Improvements	8,696,000	943,973	2,302,000	2,302,000	100,342	-	1,044,315	1,044,315	12%
									`	,



# Water System Construction Work-in-Progress Quarterly Report

As of September 30, 2020

Great Lakes Water Authority Water System Construction Work-in-Progress (CWIP) FY 2021 Rollforward Unaudited Activity For the Fiscal Quarter Ended September 30, 2020

					EV 2024 D		life to dete			116-4-4-4-
		Total Project Plan		FY 2021	FY 2021 Board Approved CIP	FY 2021	Life to date Capitalization		Life to date	Life to date Activity /
		Estimate from	CWIP Balance	Board	With Project	Activity through	Through	CWIP Balance	Activity Through	Total Project
Project	Project Name	FY 2021 - 2025 CIP	July 1, 2020	Approved CIP	Amendments	September 30, 2020	September 30, 2020	September 30, 2020	September 30, 2020	Plan Estimate
	Replacement of Rapid Mix Units at Springwells									
114006	WTP 1958 Process Train	1,031,000	9,390	-	-	-	1,021,039	9,390	1,030,429	100%
114007	Powder Activated Carbon Systems	4,188,000	-	-	-	-	-	-	-	0%
	1930 Sedimentation Basin Sluice Gates, Guides &	t .								
114008	Hoists Improvements at Springwells WTP	14,241,000	3,381,909	10,327,000	10,327,000	3,042,695	-	6,424,604	6,424,604	45%
	Springwells Water Treatment Plant Service Area									
114009	Redundancy Study	311,000	-	-	-	-	-	-	-	0%
114010	Yard Piping Improvements	112,613,000	241,135	1,000	1,000	68,729	-	309,864	309,864	0%
	Steam, Condensate Return, and Compressed Air									
114011	Piping Improvements at Springwells WTP	23,898,000	10,083,734	6,932,000	6,932,000	2,628,904	-	12,712,638	12,712,638	53%
	Springwells Water Treatment Plant 1930 Filter									
114012	Building-Roof Replacement	3,911,000	-	-	-	-	3,911,148	-	3,911,148	100%
114013	Springwells Reservoir Fill Line Improvements	4,821,000	3,586,056	-	-	124,809	-	3,710,866	3,710,866	77%
	Emergency Grating Replacement at Springwells									
114015	WTP	3,366,000	-	-	-	-	3,365,903	-	3,365,903	100%
	Springwells Water Treatment Plant 1958 Settled									
444046	Water Conduits Concrete Pavement	4.764.000	04.063	1 663 000	1 662 000	0.202		402.005	402.005	60/
114016	Replacement	1,764,000	94,862	1,663,000	1,663,000	8,203	-	103,065	103,065	6%
114017	Springwells Water Treatment Plant Flocculator Drive Replacement	9,296,000	1,071	315,000	456,782	3,562		4,633	4,633	0%
114017	Drive Replacement	3,230,000	1,071	313,000	+30,762	3,302		4,033	4,033	070
	Springwells Water Treatment Plant - Service									
	<b>Building Electrical Substation and Miscellaneous</b>									
114018	Improvements	1,508,000	-	-	-	697	-	697	697	0%
	Yard Piping, Valves and Venturi Meters									
115001	Replacement at Water Works Park	72,019,000	2,839,127	5,462,000	5,462,000	8,121	-	2,847,248	2,847,248	4%
	Comprehensive Condition Assessment at									
115003	Waterworks Park WTP	582,000	-	-	-	-	-	-	-	0%
	Water Works Park WTP Chlorine System									
115004	Upgrade	7,440,000	-	-	-	9,563	6,957,032	9,563	6,966,596	94%
115005	WWP WTP Building Ventilation Improvements	10,141,000	1,126	1,999,000	1,999,000	-	-	1,126	1,126	0%
115006	Water Works Park Site/Civil Improvements	5,643,000	-	-	-	-	-	-	-	0%
	Pennsylvania, Springwells and Northeast Raw									
116002	Water Supply Tunnel Improvements based on	61,245,000	18,513,669	14,138,000	14,138,000	1,325,509	-	19,839,178	19,839,178	32%
122001	Parallel 42-Inch Main in 24 Mile Road from	22.246.000					22 244 724		22 244 724	1000/
122001	Rochester Station to Romeo Plank Road	33,246,000	-	-	-	-	33,241,721	-	33,241,721	100%
122002	Replacement of Five (5) PRV Pits of Treated	2 700 000					2 705 001		2 705 001	100%
122002	Water Transmission System  New Waterworks Park to Northeast	2,790,000	-	-	-	-	2,785,001	-	2,785,001	100%
122003	Transmission Main	157,526,000	5.190.146	11,703,000	11,703,000	1.941.844		7.131.989	7,131,989	5%
122003	Transmission Main	137,320,000	3,130,140	11,703,000	11,703,000	1,341,044	-	7,131,303	7,151,969	3%



Construction Work-in-Progress Quarterly Report As of September 30, 2020

**Water System** 

Great Lakes Water Authority Water System Construction Work-in-Progress (CWIP) FY 2021 Rollforward Unaudited Activity For the Fiscal Quarter Ended September 30, 2020

					FY 2021 Board		Life to date			Life to date
		Total Project Plan		FY 2021	Approved CIP	FY 2021	Capitalization		Life to date	Activity /
		Estimate from	CWIP Balance	Board	With Project	Activity through	Through	CWIP Balance	Activity Through	Total Project
Project	Project Name	FY 2021 - 2025 CIP	July 1, 2020	Approved CIP	Amenaments	September 30, 2020	September 30, 2020	September 30, 2020	September 30, 2020	Plan Estimate
	96-inch Main Relocation, Isolation Valves					. ===				
122004	Installations, and New Parallel Main	144,871,000	1,816,305	5,267,000	5,267,000	1,733,640	-	3,549,945	3,549,945	2%
122005	Replacement Schoolcraft Watermain	18,106,000	1,381,778	13,141,000	13,141,000	947,426	-	2,329,204	2,329,204	13%
	Transmission System Water Main Work-Wick									
122006	Road Parallel Water Main	22,338,000	5,902,921	9,975,000	9,975,000	4,170,264	-	10,073,185	10,073,185	45%
	Design and Construction of a new Newburgh									
	Road 24" Main along Newburgh Road between									
122007	Ch	21,457,000	1,805	-	-	-	-	1,805	1,805	0%
	Water System Improvements in Joy Road from									
122009	Southfield Road to Trinity	149,000	-	-	-	-	106,881	-	106,881	72%
122011	Park-Merriman Water Main-Final Phase	7,625,000	5,221,921	2,163,000	2,163,000	1,514,280	-	6,736,201	6,736,201	88%
122012	36-inch Water Main in Telegraph Road	9,959,000	-	-	-	-	9,986,284	-	9,986,284	100%
	Lyon Township Transmission Main Extension									
122013	Project	73,941,000	3,642,904	1,194,000	1,194,000	868,164	-	4,511,068	4,511,068	6%
122016	Downriver Transmission Loop	37,744,000	224,909	1,748,000	1,748,000	381,627	-	606,536	606,536	2%
	7 Mile/Nevada Transmission Main Rehab and									
122017	Carrie/Nevada Flow Control Station	60,577,000	3,414	1,794,000	1,794,000	3,888	-	7,302	7,302	0%
	Garland, Hurlbut, Bewick Water Transmission									
122018	System Rehabilitation	44,577,000	-	1,717,000	1,717,000	-	-	-	-	0%
132001	Wick Road Station Rehabilitation	135,000	-	-	-	-	135,073	-	135,073	100%
	Isolation Gate Valves for Line Pumps for West									
132003	Service Center Pumping Station	1,979,000	1,712	65,000	65,000	28,189	1,742,479	29,901	1,772,380	90%
	Hydraulic Surge Control for North Service Center									
132004	Pumping Station	215,000	-	-	-	-	-	-	-	0%
	Pressure and Control Improvements at the									
132006	Electric, Ford Road, Michigan, and West Chica	3,279,000	1,883,902	987,000	987,000	502,510	-	2,386,412	2,386,412	73%
	Energy Management: Freeze Protection Pump									
132007	Installation at Imlay Pumping Station	5,199,000	167,665	4,211,000	4,211,000	173,044	-	340,709	340,709	7%
	Needs Assessment Study for all Water Booster									
132008	Pumping Stations	1,838,000	-	-	-	-	-	-	-	0%
	West Service Center/Duval Rd Division Valve									
132010	Upgrades	37,705,000	2,460,032	4,323,000	4,323,000	594,574	-	3,054,606	3,054,606	8%
132012	Ypsilanti PS Improvements	31,617,000	333,589	846,000	846,000	56,862	-	390,452	390,452	1%
132014	Adams Road Booster Pumping Improvements	27,536,000	83,262	-	-	-	-	83,262	83,262	0%
132015	Newburgh BPS	30,677,000	350,454	973,000	973,000	30,643	-	381,098	381,098	1%
132016	North Service Center BPS Improvements	45,342,000	266,392	-	-	11,416	-	277,808	277,808	1%
132018	Schoolcraft BPS	-	47,317	-	-	-	-	47,317	47,317	100%
132019	Wick Road BPS - Switchgear	2,940,000	56,912	-	-	-	-	56,912	56,912	2%
132020	Franklin BPS - Isolation Gate Valves	2,442,000	93,160	-	-	-	-	93,160	93,160	4%
132021	Imlay BPS - Replace VFDs, Pumps & Motors	13,000	227,346	-	-	-	-	227,346	227,346	1749%
132022	Joy Road BPS - Replace Reservoir Pumps	55,000	71,380	-	-	-	-	71,380	71,380	130%
	Northwest Booster Station Yard Piping	,-30	,					,=30	,_ 30	
132025	Improvements	1,000	20,155	_	_	152	_	20,306	20,306	2031%
	p	_,000	,_55					_5,500	•	
132026	Franklin Pumping Station Valve Replacement	1,411,000	821,090	613,000	613,000	151,053	_	972,143	972,143	7 69%
_5_5_		1,711,000	021,000	313,000	013,000	131,033		372,143	372,143	0370



#### Great Lakes Water Authority Water System Construction Work-in-Progress (CWIP) FY 2021 Rollforward Unaudited Activity For the Fiscal Quarter Ended September 30, 2020

# Water System Construction Work-in-Progress Quarterly Report

Project	Project Name	Total Project Plan Estimate from FY 2021 - 2025 CIP	CWIP Balance July 1, 2020	FY 2021 Board Approved CIP	With Project	FY 2021 Activity through September 30, 2020	Life to date Capitalization Through September 30, 2020	CWIP Balance September 30, 2020	Life to date Activity Through September 30, 2020	Life to date Activity / Total Project Plan Estimate
170100	Allowance: WTP/Pump Station	70,164,000	-	1,499,000	1,499,000	-	-	-	-	0%
	Water Production Plant Flow Mettering									
170102	Improvements at NE, SP & SW WTP	-	372,374	-	-	1,266	-	373,640	373,640	100%
	Belle Isle Water Supply Intake and Ice Boom									
170103	Improvements	-	3,278	-	-	-	286,596	3,278	289,874	100%
170122	Meter Pit at Brownstown Township	-	133,306	-	-	-	-	133,306	133,306	100%
170200	As Needed Construction Materials,	1 815 000		COT 000	CSE 000					00/
170200	Environmental Media and Special Allowance	1,815,000	-	685,000	685,000	-	-	-	-	0%
170300	Water Treatment Plant Automation Program	18,728,000	_	5,440,000	5,440,000					0%
170300	Water Plant Automation	18,728,000	1,755,142	3,440,000	5,440,000			1,755,142	1,755,142	100%
170301	#N/A			_		41,654	<u>-</u>	41,654	41,654	100%
170303	#N/A	_	_	_	_	8,514	-	8,514	8,514	100%
170400	Water Transmission Improvement Program	28,157,000	_	1,776,000	1,776,000		-	-	-	0%
170401	Emergency Bypass Around Ypsilanti Station	-	1,662,615	-	-	200	-	1,662,815	1,662,815	100%
	Transmission System Valve Assessment and		,,.					,,.	,,.	
170500	Rehabilitation/Replacement Program	26,469,000	-	1,177,000	1,177,000	-	-	-	-	0%
	Transmission System Valve Assessment and									
170502	Rehabilitation/Replacement A	-	2,051,843	-	-	367,895	6,363,896	2,419,738	8,783,634	100%
	Transmission System Valve Assessment and									
170503	Rehabilitation/Replacement B	-	393,559	-	-	256,451	-	650,010	650,010	100%
	Water Transmission Main Asset Assessment									
170600	Program	30,753,000	-	54,000	54,000	-	-	-	-	0%
	Reservoir Inspection, Design and Rehabilitation									
170800	Program	59,076,000	-	6,087,000	6,087,000	-	-	-	-	0%
170801	Reservoir Inspection, Design and Rehabilitation	-	2,615,570	-	-	1,924,792	-	4,540,362	4,540,362	100%
170000	Suburban Water Meter Pit Rehabilitation and	10 201 000	_	2 525 000	2 525 000					00/
170900	Meter Replacement Program Suburban Water Meter Pit Rehabilitation and	10,301,000	-	2,535,000	2,535,000	-	-	-	-	0%
170901	Meter Replacement		4,529,883			378.374		4,908,256	4,908,256	100%
170901	Brownstown Meter Pit Rehabilitation		76,390			3/0,3/4		76,390	76,390	100%
171500	Roof Replacement - Var Facilities Program	23,673,000	70,390	173,000	173,000	<u> </u>	-	70,390	70,330	0%
171501	Roof Replacements - Var Facilities Program	-	2,772,205	-	-	197,238	360,430	2,969,444	3,329,873	100%
341001	Security Infrastructure Improvements	10,650,000	3,977,412	4,018,000	4,018,000	1,165,045	-	5,142,457	5,142,457	48%
351001	Water Facility Lighting Renovations	556,000	6,667	50,000	50,000	-,,	-	6,667	6,667	1%
380600	General Engineering Services Allowance	56,000	-	-	-	-	-	-	-	0%
380700	As-needed Engineering Services for Concrete Testing, Geotechnical Soil Borings, other Testing Services, and Related Services Allowance	2,130,000	-	715,000	715,000		-	-	-	0%
	Energy Management: Electric Metering									
381000	Improvement Program	3,435,000	-	-	-	-	-	-	-	0%
<b>Grand Total</b>		\$ 1,970,283,000	\$ 126,197,522	\$ 147,564,000	\$ 147,705,782	\$ 27,452,121	\$ 210,640,773	\$ 153,649,643	\$ 364,290,416	18%
			Projec	t Amendments	\$ 141,782					3





### **FY 2021 Project Amendment Summary**

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 2021 Capital Improvement Plan.

\$141,782 of Capital Reserve project amendments have been prepared as of September 30, 2020 as shown in the table on the next page along with project amendments detailing the assignment of funding within Program and Allowance accounts.

The order of the report on the subsequent page is in ascending order by CIP project number.



# Water System Construction Work-in-Progress Quarterly Report

As of September 30, 2020

### Great Lakes Water Authority Water System Project Amendment Summary Unaudited Activity For the Fiscal Year Ended September 30, 2020

		Program /					
Project	Project Name	Allowance		Capital R	Reserve	<b>Grand To</b>	tal
114017	Springwells Water Treatment Plant Flocculator Drive Replacement		-		141,782		141,782
<b>Grand Total</b>		\$	-	\$	141,782	\$	141,782



# Wastewater System Construction Work-in-Progress Quarterly Report As of September 30, 2020

#### **WASTEWATER SYSTEM**

### **Executive Summary**

The rate of spend is a key performance indicator. The development of the FY 2021-2025 and related CIP Plan for FY 2021 were based on anticipation of FY 2021 activity resulting in 75% of planned spend. The Wastewater System spend for the period ending September 30, 2020 is 64.6% of the prorated FY 2021 board approved CIP, 64.1% of the prorated FY 2021 board approved CIP with project amendments, and 86.1% of the FY 2021 Capital Spending Rate Assumption (SRA). Detailed analysis of the projects for which FY 2021 Board Approved CIP was amended from \$110,638,000 to \$111,444,137 is provided in the subsequent Project Amendment Summary section of this report.

						FY 2021	F	Y 2021	
			FY 2020	FY 2020		Prorated	A	ctivity	FY 2021
Wastewater System Projects	FY 2020		Activity	Percentage	FY 2021	(Three Months)	(Unau	ıdited)	Percentage
FY 2020 Board Approved CIP	\$ 161,480,000 \$	73,8	326,521	45.7%					
FY 2020 Board Approved CIP With Project Amendments	156,884,005	73,8	326,521	47.1%					
FY 2020 Capital Spend Rate Assumption (SRA)	121,110,000	73,8	326,521	61.0%					
FY 2021 Board Approved CIP					\$ 110,638,000	\$ 27,659,500	\$ 17,86	56,023	64.6%
FY 2021 Board Approved CIP With Project Amendments					111,444,137	27,861,034	17,86	56,023	64.1%
FY 2021 Capital Spend Rate Assumption (SRA)					82,978,500	20,744,625	17,86	56,023	86.1%



# Great Lakes Water Authority Wastewater System Construction Work-in-Progress (CWIP) FY 2021 Rollforward Unaudited Activity For the Fiscal Quarter Ended September 30, 2020

# Wastewater System Construction Work-in-Progress Quarterly Report

		Total Dusiant Diam		EV 2021	FY 2021 Board	EV 2021	Life to date		1:6- 4- 4-4-	Life to date
		Total Project Plan Estimate from	CWIP Balance	FY 2021 Board	Approved CIP With Project	FY 2021 Activity through	Capitalization Through	CWIP Balance	Life to date Activity Through	Activity / Total Project
Project	Project Name	FY 2021 - 2025 CIP	July 1, 2020	Approved CIP	•		September 30, 2020		September 30, 2020	Plan Estimate
,			, _, _,					,,,		
	Rehabilitation of Primary Clarifiers Rectangular									
	Tanks, Drain Lines, Electrical/Mechanical									
211001	Building and Pipe Gallery	55,069,000	52,886,451	3,775,000	3,775,000	969,635	-	53,856,086	53,856,086	98%
211002	Pump Station No. 2 Pumping Improvments	3,772,000	2,013,956	-	-	8,010	-	2,021,966	2,021,966	54%
	Pump Station 1 Rack & Grit and MPI Sampling									
211004	Station 1 Improvements	28,273,000	27,605,573	-	-	12,578	-	27,618,150	27,618,150	98%
211005	Pump Station No. 2 Improvements	34,050,000	-	-	-	-	-	-	-	0%
211006	Pump Station No. 1 Improvements	26,776,000	1,283,830	645,000	645,000	197,123	-	1,480,953	1,480,953	6%
	Replacement of Bar Racks and Grit Collection									
211007	System at Pump Station No. 2	76,596,000	5,176	3,098,000	3,098,000	1,126	-	6,302	6,302	0%
	Rehabilitation of Ferric Chloride Feed systems a									
211008	the Pump Station -1 and Complex B Sludge Lines	10,825,000	1,629,677	5,522,000	5,522,000	46,420	-	1,676,097	1,676,097	15%
	Rehabilitation of the Circular Primary Clarifier									
211009	Scum Removal System	13,249,000	2,734	313,000	313,000	524	-	3,258	3,258	0%
	Rehabilitation of Sludge Processing Complexes A									
211010	and B	14,039,000	42,231	-	-	48,431	-	90,663	90,663	1%
24424	WDDF DC4 C	100 717 000								201
211011	WRRF PS1 Screening and Grit Improvements	100,747,000	-	-	-	-	46 524 075	-	46 524 075	0%
212003	Aeration System Improvements	16,492,000	-	-	-	-	16,524,875	-	16,524,875	100%
242004	ProjectChlorination/Dechlorination Process	F 766 000	2 002 4 40	4 050 000	4 050 000	075 406		4.670.546	4 670 546	040/
212004	Equipment Improvements	5,766,000	3,803,140	1,850,000	1,850,000	875,406	-	4,678,546	4,678,546	81%
	PC-797 Rouge River Outfall Disinfection and CS-									
212006	1781 Oversight Consulting Services Contract	44,440,000					43,788,731		43,788,731	99%
212007	Rehabilitation of the Secondary Clarifiers	30,141,000	330			1,312	43,766,731	1,642	1,642	0%
212007	WRRF Rehabilitation of Intermediate Lift	81,514,000	16,175	4,612,000	4,612,000	97,063		113,239	113,239	0%
212009	WRRF Aeration Improvements 3 and 4	73,763,000	10,173	4,012,000	4,012,000	37,003		113,233	113,233	0%
212003	With Actation improvements 3 and 4	73,703,000								070
	WRRF Conversion of Disinfection of all Flow to									
212010	Sodium Hypochlorite and Sodium Bisulfite	5,986,000	_	_	_	_	_			0%
	Improvements to Sludge Feed Pumps at	3,300,000								070
213006	Dewatering Facilities	4,651,000	5,750	174,000	174,000	849	-	6,599	6,599	0%
	De Water III. B. Facilities	1,032,000	3,733	27.1,000	27 1,000	0.5		0,000	0,000	0,0
	Construction of the Improved Sludge									
213007	Conveyance and Lighting System at the WWTP	19,946,000	16,878,502	2,258,000	2,258,000	381,904	_	17,260,406	17,260,406	87%
	Rehabilitation of the Wet and Dry Ash Handling	20,0 10,000		_,,	_,,			=: /====/	=: /====/	2.7.
213008	Systems	18,543,000	111,335	1,338,000	1,338,000	5,498	-	116,834	116,834	1%
	Relocation of Industrial Waste Division and	2,2 .2,200	,	, ,	, ,	2,.30				
214001	Analytical Laboratory Operations	14,001,000	8,301,788	1,331,000	1,331,000	2,576,148	2,282,260	10,877,936	13,160,196	94%
	Rehabilitation of Various Sampling Sites and PS#			, ,	, , ,	, , -	, , , , , ,	, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,	
216004	2 Ferric Chloride System at WWTP	5,729,000	1,637,516	1,300,000	2,106,137	296,312	-	1,933,827	1,933,827	34%
	·	· · · · · · · · · · · · · · · · · · ·								



#### Great Lakes Water Authority Wastewater System Construction Work-in-Progress (CWIP) FY 2021 Rollforward Unaudited Activity For the Fiscal Quarter Ended September 30, 2020

# Wastewater System Construction Work-in-Progress Quarterly Report

					FY 2021 Board		Life to date			Life to date
		Total Project Plan		FY 2021	Approved CIP	FY 2021	Capitalization		Life to date	Activity /
		Estimate from	CWIP Balance	Board	With Project	Activity through	Through	CWIP Balance	Activity Through	Total Project
Project	Project Name	FY 2021 - 2025 CIP	July 1, 2020	Approved CIP	Amendments	September 30, 2020	September 30, 2020	September 30, 2020	September 30, 2020	Plan Estimate
	Dehabilitation of the Carooned Final Effluent									
216006	Rehabilitation of the Screened Final Effluent (SFE) Pump Station and Secondary Water System	24,512,000	73,474	4,291,000	4,291,000	35,719		109,193	109,193	0%
210000	DTE Primary Electric 3rd Feed Supply Line to the		75,474	4,291,000	4,291,000	55,/19	-	109,193	109,193	076
216007	WRRF	5,823,000	2,354,996	1,296,000	1,296,000	10,440	543,500	2,365,435	2,908,935	50%
210007	Rehabilitation of Screened Final Effluent (SFE)	3,823,000	2,334,330	1,230,000	1,230,000	10,440	343,300	2,303,433	2,300,333	3070
216008	Pump Station	24,954,000	5,671	1,362,000	1,362,000	436		6,108	6,108	0%
216009	Logistics & Material Facility	2,768,000	164,904	253,000	253,000	(18,498)		146,406	146,406	5%
216010	WRRF Facility Optimization	10,338,000	4,312	14,000	14,000	890		5,202	5,202	0%
216012	WRRF Research Facility	-	-,512	-	-	6,513	6,513		6,513	100%
	Intercommunity Relief Sewer Modifications in					0,515	0,515		0,515	20070
222001	Detroit Oakwood District	53,512,000	-	975,000	975,000	1,088	_	1,088	1,088	0%
	Detroit River Interceptor Evaluation and	33,312,000		3.3,000	3.3,000	2,000		2,000	2,000	0,0
222002	Rehabilitation	81,676,000	20,151,096	23,634,000	23,634,000	2,788,352	_	22,939,449	22,939,449	28%
	Collection System Valve Remote Operation	. ,,	., . ,	-,,	-,,	,,		,,,,,,,	,,,,,,	
222004	Structures Improvements	41,126,000	468,867	2,701,000	2,701,000	116,428	_	585,295	585,295	1%
	Fairview Pumping Station - Replace Four	, .,		, . ,	, . ,	-, -		,	,	
232001	Sanitary Pumps	37,276,000	14,273,606	5,336,000	5,336,000	3,498,937	-	17,772,543	17,772,543	48%
	Freud and Connor Creek Pump Station									
232002	Improvements	222,099,000	7,284,631	6,445,000	6,445,000	447,728	57,734	7,732,359	7,790,094	4%
	CONDITION ASSESSMENT AT BLUE HILL PUMP									
232004	STATION	286,000	-	286,000	286,000	-	-	-	-	0%
	Collection System In System Storage									
233002	Devices(ISDs) Improvements	-	235	-	-	-	-	235	235	100%
233003	Rouge River In-system Storage Devices	46,797,000	-	-	-	-	-	-	-	0%
	Sewer and Interceptor Evaluation and									
260200	Rehabilitation Program	154,643,000	-	12,976,000	12,976,000	-	-	-	-	0%
260201	Conveyance System Interceptor Rehab	-	960,448	-	-	1,391,623	18,542,127	2,352,070	20,894,197	100%
260202	Conveyance System Interceptor Rehab	-	23,871	-	-	1,904	-	25,775	25,775	100%
	Energy Services for Rehabilitation of Conveyance	!								
260204	Sewer System	-	912,742	-	-	337,969	-	1,250,711	1,250,711	100%
260205	NWI Outfall Rehabilitation	-	79,226	-	-	31,085	-	110,311	110,311	100%
260500	CSO Outfall Rehab	64,406,000	-	11,706,000	11,706,000	-	-	-	-	0%
260503	Collection System Backwater Gates	-	760	-	-	(760)	-	(0)	-	100%
260504	Rehabilitation of Outfalls - Phase II	-	2,202,000	-	-	1,295,905	-	3,497,906	3,497,906	100%
260505	Rehabilitation of Outfalls - Phase IV	-	1,586,323	-	-	1,057,041	-	2,643,364	2,643,364	100%
260506	Pilot Regulator Orifice Expansion	-	78,641	-	-	-	-	78,641	78,641	100%
260508	B-39 Outfall Rehab	-	498	-	-	29,502	-	30,000	30,000	100%
260509	B-40 Outfall Rehab	-	66,293			1,570	-	67,863	67,863	100%
260600	CSO Facilities Improvements	152,943,000	-	7,492,000	7,492,000		-	-	-	0%
260601	Oakwood Drain Valve Improvements	-	26,199	-	-	122,939	655,436	149,138	804,574	100%
260603	Conner Creek CSO Basin Rehab	-	7,056,367	-	-	303,948	4 000 =00	7,360,316	7,360,316	100%
260607	Lieb SDF Electrical Improvements	-	179	-	-	(179)	1,032,508	(0)	1,032,508	100%
260609	Seven Mile RTB - Parking Lot / Sitework	-	369,559	-	-	50,385	-	419,944	419,944	100%



#### Great Lakes Water Authority Wastewater System Construction Work-in-Progress (CWIP) FY 2021 Rollforward Unaudited Activity For the Fiscal Quarter Ended September 30, 2020

# Wastewater System Construction Work-in-Progress Quarterly Report

					FY 2021 Board		Life to date			Life to date
		Total Project Plan		FY 2021	Approved CIP	FY 2021	Capitalization		Life to date	Activity /
		Estimate from	CWIP Balance	Board	With Project	Activity through	Through	CWIP Balance	Activity Through	Total Project
Project	Project Name	FY 2021 - 2025 CIP	July 1, 2020	Approved CIP	Amendments	September 30, 2020	September 30, 2020	September 30, 2020	September 30, 2020	Plan Estimate
260611	HVAC Improvements At Lieb SDF	-	95,887	-	-	22,167	-	118,054	118,054	100%
260613	Baby Creek HVAC Improvements	-	51,338	-	-	221,275	-	272,613	272,613	100%
260614	CSO Facilities Structural Improvements	-	303,795	-	-	1,564	-	305,359	305,359	100%
	PF & Lieb CSO Facilities Site & Drainage									
260615	Improvements	-	109,660	-	-	35,025	-	144,685	144,685	100%
260616	Baby Creek SCO Anchor & Wedge Improvements	-	666,495	-	-	112,947	-	779,442	779,442	100%
260617	St. Aubin Chemical Disinfection Improvements	-	250,348	-	-	52,072	-	302,420	302,420	100%
260618	Oakwood HVAC Improvements	-	75,672	-	-	15,465	-	91,137	91,137	100%
	Control System Upgrade At St. Aubin, Lieb and 7									
260619	Mile	-	61,593	-	-	1,085	-	62,678	62,678	100%
270001	Pilot CSO Netting Facility	7,769,000	-	20,000	20,000	-	-	-	-	0%
	Meldrum Sewer Diversion and VR-15									
270002	Improvements	6,079,000	-	-	-	-	-	-	-	0%
270003	Long Term CSO Control Plan	5,794,000	3,545	2,796,000	2,796,000	54,418	52,909	5,054	57,963	1%
277001	Baby Creek Outfall Improvements Project	2,237,000	2,283	1,251,000	1,251,000	312,142	311,910	2,515	314,425	14%
	Roofing Systems Replacement at GLWA									
	Wastewater Treatment Plant, CSO Retention									
	Treatment Basins (RTB) and Screening									
331002	Disinfection Facilities (SDF)	9,745,000	-	91,000	91,000	-	1,123,056	-	1,123,056	12%
341001	Security Infrastructure Improvements	-	1,033,207	-	-	8,559	-	1,041,766	1,041,766	100%
341002	Security Infrastructure Improvements	2,630,000	-	1,051,000	1,051,000	-	-	-	-	0%
380600	General Engineering Services Allowance	(51,000)	-	-	-	-	-	-	-	0%
	Energy Management: Electric Metering									
381000	Improvement Program	3,435,000	-	446,000	446,000	-	-	-	-	0%
<b>Grand Total</b>		\$ 1,645,165,000			\$ 111,444,137	\$ 17,866,023	\$ 278,568,278	\$ 194,517,578	\$ 473,085,856	29%
			Proje	ct Amendments	\$ 806,137					





As of September 30, 2020

### **FY 2021 Project Amendment Summary**

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 2021 Capital Improvement Plan.

\$806,137 of Capital Reserve project amendments have been prepared as of September 30, 2020 as shown in the table on the next page along with project amendments detailing the assignment of funding within Program and Allowance accounts.

The order of the report on the subsequent page is in ascending order by CIP project number.



# Wastewater System Construction Work-in-Progress Quarterly Report As of September 30, 2020

Great Lakes Water Authority

Wastewater System Project Amendment Summary

Unaudited Activity For the Fiscal Year Ended September 30, 2020

Project	Project Name	Program / Allowance		Capital R	eserve	Grand To	otal
216004	Rehabilitation of Various Sampling Sites and PS# 2 Ferric Chloride System at WWTP		-		806,137		806,137
<b>Grand Total</b>		\$	-	\$	806,137	\$	806,137