

GLWA

Great Lakes Water Authority



Monthly Financial Report Binder

April 2020

**Presented to the
Great Lakes Water Authority
Audit Committee on July 17, 2020**

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Key Financial Metrics

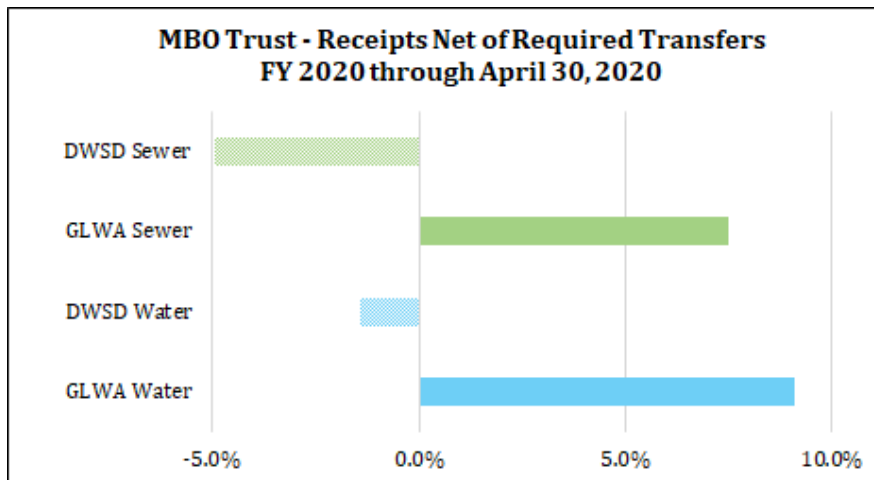
The table below presents a summary of key metrics found in this monthly financial report.

The indicators below focus on a financial risk management lens of preventing a budget shortfall. Green indicates no risk of a budget shortfall; yellow indicates a potential shortfall by year-end; and red indicates a likely budget shortfall by year-end. Each of these variances is monitored by the Great Lakes Water Authority (GLWA) management and, where appropriate, operating and/or budget priorities are re-evaluated. Looking forward, the items in red below resulted in FY 2020 Board-approved budget amendments in June 2020.

As of April 30, 2020				
Metric	FY 2020 Budget	FY 2020 Actual	Variance from Financial Plan	Report Page Reference
Wholesale Water Billed Revenue (\$M)	\$263.0	\$257.7	-2%	40
Wholesale Water Billed Usage (mcf)	11,552,000	10,952,000	-5%	
Wholesale Sewer Billed Revenue (\$M)	\$223.2	\$223.2	0%	42
Wholesale Water Operations & Maintenance (\$M)	\$109.6	\$106.8	-3%	4
Wholesale Sewer Operations & Maintenance (\$M)	\$155.9	\$139.8	-10%	
Investment Income (\$M)	\$14.5	\$16.6	14%	31
Water Prorated Capital Spend w/SRA* (\$M)	\$90.0	\$59.0	-34%	25
Sewer Prorated Capital Spend w/SRA* (\$M)	\$101.0	\$60.0	-41%	

*SRA refers to the capital spending ratio assumption which allows capital program delivery realities to align with the financial plan.

Master Bond Ordinance (MBO) Trust Net Receipts



Net cash flow receipts are positive for GLWA Water and Sewer. This means that all legal commitments of the MBO Trust and the lease payment are fully funded to date – and that positive cash flow is available for additional capital program funding in subsequent year(s).

DWSD Water and Sewer net receipt shortfalls are \$1.1 and \$10.7 million respectively for April 2020 attributed to the impact of the COVID-19 pandemic. GLWA and DWSD staff meet regularly to discuss steps to mitigate this shortfall as outlined in the 2018 MOU. Prospective COVID-19 financial impacts are being monitored closely and are addressed in the monthly CFO Report section of the July 17, 2020 Audit Committee binder.

Questions? Contact the Office of the Chief Financial Officer at CFO@glwater.org



The Monthly Budget to Actual Analysis report includes the following three sections.

1. Revenue Requirement Budget Basis Analysis
2. Operations & Maintenance Budget – Major Budget Categories
3. Alignment of Operations & Maintenance Budget Priorities – Expense Variance Analysis

Revenue Requirement Budget Basis Analysis

GLWA's annual revenue requirement represents the basis for calculating Member Partner charges and aligns with the Master Bond Ordinance flow of funds categories. The budget basis is not the same as the full accrual basis used for financial reporting although the revenues and operations and maintenance expense are largely reported on an accrual basis. The primary difference between the revenue requirement budget basis to the financial reporting basis is the treatment of debt service, legacy pension obligations, and lease related activities. The Revenue Requirement Basis is foundational to GLWA's daily operations, financial plan, and of most interest to key stakeholders.

Table 1A – Water Revenue Requirement Budget and **Table 1B – Sewer Revenue Requirement Budget** presents a year-over-year budget to actual performance report. The revenue requirement budget is accounted for in the operations and maintenance fund for each system. Since this report is for April 2020, the pro-rata benchmark is 83.3% (10 of 12 months of the fiscal year).

Items noted below are highlighted in gold on Tables 1A (Water) and 1B (Sewer).

1. **Revenues:** For *both* systems, FY 2020 revenues are slightly below target while the prior year's (FY 2019) revenues are either at or slightly above target. Detailed schedules related to revenues are provided in the *Wholesale Billings, Collections, and Receivables* section of this financial report binder.
2. **Investment Earnings:** For *both* systems, investment earnings are below target for FY 2020. July 2019 includes the reversal of the market adjustment from FY 2019 of \$1.6 million for the *water* system and \$0.6 million for the *sewer* system. Without these adjustments both systems would be above target for FY 2020. Detailed analysis of investment earnings activity to date can be found in the *Cash & Investment Income* section of this financial report binder.
3. **Other Revenues:** These are one-time and unusual items that do not fit an established revenue category. Both the *water* and *sewer* systems actual amount will vary from budget due to the nature of the items recorded in this category.

4. **Operations & Maintenance Expense:** Actual expenses¹ for *both* systems have variances from the pro-rata benchmark. The *water* system is slightly under the pro-rata benchmark for FY 2020 at 81.2%. The *sewer* system O&M expenses, at 74.7%, is less than the pro-rata benchmark.
5. **Debt Service:** *Both* systems are less than the pro-rata benchmark for FY 2020; the *water* system is at 80.6%; while the *sewer* system is at 81.7%. The activity is based on the payment schedules adjusted for the State Revolving Fund loans that are still being drawn down. In addition, the monies invested in FY 2019 realized a higher return than projected. This gain was applied to the debt requirements which reduced the payments for July and August.
6. **DWSD Budget Shortfall Pending:** To the extent that the local (DWSD) system experiences budgetary shortfalls as defined by the Water & Sewer Services Agreement, the GLWA budget is impacted.² Steps to proactively detect, and ideally prevent, this shortfall scenario were put into place with the 2018 Memorandum of Understanding (dated June 27, 2018). For FY 2019, DWSD *sewer* had a shortfall through April 30, 2019, of \$12.3 million (FY 2019 ended with a small surplus). To achieve the goal of positive, net cash flows for FY 2019, DWSD reduced its *sewer* system O&M transfers in May and June. The transfers reduced were \$5,676,792 each for a total of \$11,353,584. The DWSD *water* system experienced a \$2.5 million budgetary surplus through April 30, 2019. For FY 2020, the DWSD *water* system has a budgetary shortfall of \$1.1 million and the DWSD *sewer* system has a budgetary shortfall of \$10.7 million through April 30, 2020. GLWA and DWSD staff are meeting regularly to discuss steps to mitigate this shortfall as outlined in the 2018 MOU.
7. **Improvement & Extension (I&E) Fund Transfer Pending:** The contribution to the I&E Fund is for improvements, enlargements, extensions or betterment of the Water System. Transfers to the I&E Fund from net revenues are now completed monthly.
8. **Other Revenue Requirements:** The remaining revenue requirements for *both* systems are funded on a 1/12th basis each month in accordance with the Master Bond Ordinance.
9. **Overall:** Total revenue requirements for *both* systems are in line with the benchmark.

¹The tables in this analysis reflect actual amounts spent. If this analysis was on a master bond ordinance (MBO) basis, like that used for calculating debt service coverage, O&M “expense” would equal the pro-rata budget because 1/12 of the O&M budget is transferred monthly outside the MBO trust to an O&M bank account.

² As a reminder, the monthly O&M transfer for MBO purposes are at 1/12 of the budget to a DWSD O&M bank account outside the trust. Actual budget may be less than that amount providing an actual positive variance for DWSD.

Table 1A – Water Revenue Requirement Budget (year-over-year) – (\$000)

	FY2019 AMENDED BUDGET	FY 2019 THRU 4/30/2019	Percent Year-to- Date	FY 2020 BOARD ADOPTED BUDGET	FY 2020 AMENDED BUDGET	FY 2020 THRU 4/30/2020	Percent Year-to- Date
Water System							
Revenues							
Suburban Wholesale Customer Charges	\$ 307,383	\$ 255,759	83.2%	\$ 309,285	\$ 309,285	\$ 252,214	81.5%
Retail Service Charges	20,181	16,890	83.7%	21,296	21,296	17,746	83.3%
Investment Earnings	9,425	8,190	86.9%	9,084	9,084	6,188	68.1%
Other Revenues	-	21	0.0%	-	-	43	0.0%
Total Revenues	\$ 336,989	\$ 280,860	83.3%	\$ 339,664	\$ 339,664	\$ 276,191	81.3%
Revenue Requirements							
Operations & Maintenance Expense	\$ 121,563	\$ 95,480	78.5%	\$ 131,491	\$ 131,491	\$ 106,789	81.2%
General Retirement System Legacy Pension	6,048	5,040	83.3%	6,048	6,048	5,040	83.3%
Debt Service	131,242	109,176	83.2%	137,558	137,558	110,872	80.6%
General Retirement System Accelerated Pension	6,268	5,224	83.3%	6,268	6,268	5,224	83.3%
Extraordinary Repair & Replacement Deposit	-	-	0.0%	-	-	-	0.0%
Water Residential Assistance Program Contribution	1,673	1,395	83.3%	1,698	1,698	1,415	83.3%
Lease Payment	22,500	18,750	83.3%	22,500	22,500	18,750	83.3%
Operating Reserve Deposit	-	-	0.0%	3,976	3,976	3,313	83.3%
DWSD Budget Shortfall/(Surplus) Pending Improvement & Extension Fund	-	(2,479)	0.0%	-	-	1,132	0.0%
Transfer Pending	47,695	39,746	83.3%	30,126	30,126	22,594	75.0%
Total Revenue Requirements	\$ 336,989	\$ 272,331	80.8%	\$ 339,664	\$ 339,664	\$ 275,129	81.0%
Net Difference		\$ 8,529				\$ 1,063	
<i>Recap of Net Positive Variance</i>							
Revenue Variance		\$ 35				\$ (6,862)	
Revenue Requirement Variance		8,493				7,925	
Overall Variance		\$ 8,529				\$ 1,063	

Table 1B – Sewer Revenue Requirement Budget (year-over-year) – (\$000)

	FY 2019 AMENDED BUDGET	FY 2019 THRU 4/30/2019	Percent Year-to- Date	FY 2020 BOARD ADOPTED BUDGET	FY 2020 AMENDED BUDGET	FY 2020 THRU 4/30/2020	Percent Year-to- Date
Sewer System							
Revenues							
Suburban Wholesale Customer Charges	\$ 271,296	\$ 229,128	84.5%	\$ 272,324	\$ 272,324	\$ 223,910	82.2%
Retail Service Charges	181,159	151,890	83.8%	185,807	185,807	154,839	83.3%
Industrial Waste Control Charges	15,001	7,600	50.7%	13,744	13,744	6,836	49.7%
Pollutant Surcharges	-	4,686	0.0%	-	-	5,072	0.0%
Investment Earnings	6,879	8,173	118.8%	8,731	8,731	7,032	80.5%
Other Revenues	-	393	0.0%	-	-	385	0.0%
Total Revenues	\$ 474,335	\$ 401,871	84.7%	\$ 480,605	\$ 480,605	\$ 398,076	82.8%
Revenue Requirements							
Operations & Maintenance Expense	\$ 191,079	\$ 142,646	74.7%	\$ 187,057	\$ 187,057	\$ 139,771	74.7%
General Retirement System Legacy Pension	10,824	9,020	83.3%	10,824	10,824	9,020	83.3%
Debt Service	208,389	172,780	82.9%	215,739	215,739	176,306	81.7%
General Retirement System Accelerated Pension	11,621	9,684	83.3%	11,621	11,621	9,684	83.3%
Extraordinary Repair & Replacement Deposit	-	-	0.0%	-	-	-	0.0%
Water Residential Assistance Program Contribution	2,374	1,978	83.3%	2,403	2,403	2,003	83.3%
Lease Payment	27,500	22,917	83.3%	27,500	27,500	22,917	83.3%
Operating Reserve Deposit	-	-	0.0%	-	-	-	0.0%
DWSD Budget Shortfall/(Surplus) Pending Improvement & Extension Fund	-	12,275	0.0%	-	-	10,749	0.0%
Transfer Pending	22,548	18,790	83.3%	25,462	25,462	19,096	75.0%
Total Revenue Requirements	\$ 474,335	\$ 390,089	82.2%	\$ 480,605	\$ 480,605	\$ 389,545	81.1%
Net Difference		\$ 11,782				\$ 8,530	
<i>Recap of Net Positive Variance</i>							
Revenue Variance		\$ 6,592				\$ (2,429)	
Revenue Requirement Variance		5,190				10,959	
Overall Variance		\$ 11,782				\$ 8,530	

Operations & Maintenance Budget – Major Budget Categories

The year-over-year benchmark ratio as of April 30, 2020, is 83.3% (ten months). When comparing FY 2020 to FY 2019 in **Table 2 – Operations & Maintenance Budget – Major Budget Categories**, it appears that overall spending is consistent.

In addition to the four major budget categories, an internal charge cost center for employee benefits is shown in the table below. If the number is positive, it indicates that the internal cost allocation rate charges to other cost centers is not sufficient. A negative number indicates a surplus in the internal cost center. A moderate surplus is preferred as it provides a hedge for mid-year benefit program cost adjustments (premiums adjust on January 1 each year) as well as managing risk as the program is partially self-insured.

Table 2 – Operations & Maintenance Budget – Major Budget Categories – (\$000)

Major Budget Categories	FY 2019 AMENDED BUDGET	FY 2019 ACTIVITY THRU 4/30/2019	Percent Year-to- Date	FY 2020 BOARD ADOPTED BUDGET	FY 2020 AMENDED BUDGET	FY 2020 ACTIVITY THRU 4/30/2020	Percent Year-to- Date
Water	\$ 66,596	\$ 58,551	87.9%	\$ 66,021	\$ 66,021	\$ 57,238	86.7%
Sewer	118,319	93,137	78.7%	115,985	115,985	87,823	75.7%
Centralized	99,045	68,396	69.1%	106,914	106,914	77,475	72.5%
Administrative	28,683	20,849	72.7%	29,628	29,628	23,151	78.1%
Employee Benefits	-	(2,807)	0.0%	-	-	873	0.0%
Total O&M Budget	\$ 312,642	\$ 238,126	76.2%	\$ 318,548	\$ 318,548	\$ 246,560	77.4%

Alignment of Operations & Maintenance Budget Priorities – Expense Variance Analysis

The purpose of **Table 3 – Operations & Maintenance Expense Variance Analysis** is to evaluate whether the actual spend rate within a natural cost category is in alignment with the budget. Given the effort to develop an accurate budget, a variance is a red flag of a *potential* budget amendment or misalignment of priorities.

Total: In total, the O&M expenses are at 77.4% which is reasonably within the pro-rata benchmark of 83.3%. This positive variance equates to a dollar amount of \$18.9 million. The expense category commentary is provided below for items highlighted on Table 3.

Personnel Costs: The overall category is higher than the pro-rata benchmark; coming in at 85.6% through April 2020.

Utilities: The overall category is on target with the pro-rata benchmark; coming in at 84.7% through April 2020. Variances within this category, when they occur, are not unexpected as usage varies throughout the year.

- **Electric** is higher than the benchmark, coming in at 84.9%. This increase is primarily due to the pumps being required to run longer than normal as a result of the wet weather that Michigan had been experiencing. In addition, the first three months of GLWA's fiscal year (July, August, and September) are typically peak months for the usage of electricity. June, the last month of GLWA's fiscal year, is typically a peak month as well.
- **Gas** is coming in at 82.5% which is slightly lower than the benchmark of 83.3%. A review of the accounts has confirmed that the usage is variable throughout the year.
- **Sewage service** is higher than the benchmark, coming in at 93.5%. A review of the accounts is being conducted.
- **Water service** is lower than the benchmark, coming in at 81.0%. While usage does vary throughout the year, a review of the accounts has shown that the water service bills are coming in lower for Wastewater Operations. Processing efficiencies using the new chemical building has reduced the use of potable water during wet weather events.

Chemicals: This category is on target with the pro-rata benchmark; coming in at 84.3% through April 2020.

Supplies & Other: This category is lower than the benchmark; coming in at 78.2% through April 2020. Given that the nature of the items in this category are subject to one-time expenses that do not occur evenly throughout the year, this variance is not a concern at this time. A review of this category is being conducted.

Contractual Services: The overall category is on target with the pro-rata benchmark; coming in at 82.1% through April 2020. Variances in this category, when they occur, are not unexpected as the usage of contracts varies throughout the year (projects scheduled to begin during the latter half of the year as well as contracts that are on an as needed basis). Budget amendments will be processed for those projects in which the actual start dates have been delayed from that in which they were budgeted.

Capital Program Allocation: This category is slightly higher than the benchmark; coming in at 85.7% through April 2020. The amount in the Capital Program Allocation account is shown as negative as this is a "contra" account which represents an offset to the Personnel Costs section of the Operations & Maintenance (O&M) budget

Shared Services: This category is higher than the benchmark; coming in at 86.8% through April 2020. The shared services reimbursement is comprised of both labor (tracked via BigTime) and expenses, such as annual fees for software licensing. Staff from both GLWA and DWSD have been working together to evaluate and refine the budget for the shared services agreements. Based on these evaluations, adjustments have been made to both the

billings and accounting accruals to more accurately reflect the forecasted activity for FY 2020. Some of the shared services agreements are not billed at a monthly rate of 1/12 of the annual budgeted amount. This accounts for the variance reported between budget and actual through April 2020. It is anticipated that shared services will be on target by year end.

Table 3 – Operations & Maintenance Expense Variance Analysis – (\$000)

Expense Categories Entity-wide	FY 2019 AMENDED BUDGET	FY 2019 ACTIVITY THRU 4/30/2019	Percent Year-to- Date at 4/30/2019	FY 2019 ACTIVITY THRU 6/30/2019	Percent Year-to- Date at 6/30/2019	FY 2020 AMENDED BUDGET	PRORATED AMENDED BUDGET (10 MONTHS)	FY 2020 ACTIVITY THRU 4/30/2020	Percent Year-to- Date	PRORATED BUDGET LESS FY 2020 ACTIVITY
Salaries & Wages	\$ 63,631	\$ 49,580	77.9%	\$ 59,922	82.7%	\$ 64,703	\$ 53,919	\$ 53,332	82.4%	\$ 587
Workforce Development	751	627	83.5%	794	79.0%	1,271	1,060	973	76.6%	86
Overtime	7,612	6,315	83.0%	7,554	83.6%	7,191	5,992	6,263	87.1%	(271)
Employee Benefits	23,656	20,591	87.0%	21,998	93.6%	22,465	18,721	20,089	89.4%	(1,368)
Transition Services	8,572	7,417	86.5%	8,322	89.1%	5,872	4,894	5,342	91.0%	(448)
Employee Benefits Fund	-	(2,807)	0.0%	-	0.0%	-	-	873	0.0%	(873)
Personnel Costs	104,221	81,722	78.4%	98,589	82.9%	101,503	84,586	86,873	85.6%	(2,287)
Electric	39,019	33,122	84.9%	39,103	84.7%	39,549	32,958	33,583	84.9%	(625)
Gas	6,631	5,983	90.2%	6,568	91.1%	5,332	4,443	4,398	82.5%	45
Sewage Service	2,491	1,734	69.6%	2,094	82.8%	1,988	1,656	1,859	93.5%	(202)
Water Service	3,648	3,030	83.1%	3,631	83.5%	3,662	3,052	2,966	81.0%	85
Utilities	51,789	43,870	84.7%	51,396	85.4%	50,531	42,109	42,806	84.7%	(696)
Chemicals	13,385	10,694	79.9%	13,276	80.6%	14,019	11,682	11,822	84.3%	(140)
Supplies & Other	36,226	26,224	72.4%	37,121	70.6%	34,124	28,436	26,677	78.2%	1,760
Contractual Services	100,856	85,810	85.1%	101,873	84.2%	103,975	86,646	85,393	82.1%	1,253
Capital Program Allocation	(3,356)	(2,691)	80.2%	(3,381)	79.6%	(3,122)	(2,601)	(2,676)	85.7%	75
Shared Services	(9,005)	(7,503)	83.3%	(7,139)	105.1%	(4,995)	(4,163)	(4,334)	86.8%	171
Unallocated Reserve	18,524	-	0.0%	-	0.0%	22,513	18,761	-	0.0%	18,761
Total Expenses	\$ 312,642	\$ 238,126	76.2%	\$ 291,734	81.6%	\$ 318,548	\$ 265,456	\$ 246,560	77.4%	\$ 18,896



The Basic Financial Statements report includes the following four tables.

1. Statement of Net Position - All Funds Combined
2. Statement of Revenues, Expenses and Changes in Net Position – All Funds Combined
3. Supplemental Schedule of Operations & Maintenance Expenses -All Funds Combined
4. Supplemental Schedule of Nonoperating Expenses – All Funds Combined

At a macro level GLWA has two primary funds for financial reporting purposes: *Water Fund* and *Sewage Disposal Fund*. These funds represent the combined total of four sub-funds for each system that are used internally to properly account for sources and uses of funds. Those sub-funds for each system are: *Operations & Maintenance Fund, Improvement & Extension Fund, Construction Fund, and Capital Asset Fund*.

The Comparative June 2019 basic financial statements are presented based on final audited figures.

Statement of Net Position – All Funds Combined

Explanatory notes follow the Statement of Net Position shown in Table 1 below.

Table 1 – Statement of Net Position - All Funds Combined
As of April 30, 2020
(\$000)

	Water	Sewage Disposal	Total Business-type Activities	Comparative June 30, 2019
Assets				
Cash - unrestricted (a)	\$ 95,544	\$ 115,124	\$ 210,667	\$ 309,016
Cash - restricted (a)	51,655	59,332	110,987	261,999
Investments - unrestricted (a)	281,211	157,394	438,604	274,246
Investments - restricted (a)	130,919	195,169	326,088	185,831
Accounts Receivable	84,543	85,394	169,937	208,914
Due from (to) Other Funds (b)	3,333	5,678	9,010	2,890
Other Assets (c)	595,490	450,005	1,045,495	1,046,518
Cash Held FBO DWSD Advance (d)	-	10,126	10,126	
Capital Assets, net of Depreciation	1,319,642	2,250,906	3,570,548	3,747,784
Land	292,799	123,846	416,645	417,657
Construction Work in Process (e)	201,590	234,149	435,739	368,748
Total assets	3,056,725	3,687,122	6,743,847	6,823,603
Deferred Outflows (f)	86,601	164,534	251,135	273,596
Liabilities				
Liabilities - Short-Term (g)	145,224	179,899	325,123	321,270
Due to (from) Other Funds (b)	-	-	-	2,890
Other Liabilities (h)	2,801	6,436	9,237	9,097
Cash Held FBO DWSD (d)	1,050	-	1,050	2,807
Liabilities - Long-Term (i)	3,031,542	3,732,107	6,763,650	6,853,419
Total liabilities	3,180,617	3,918,443	7,099,060	7,189,483
Deferred Inflows (f)	60,102	57,024	117,126	108,541
Total net position (j)	\$ (97,394)	\$ (123,810)	\$ (221,203)	\$ (200,825)

Totals may be off due to rounding

In general, the Statement of Net Position - Draft reflects a mature organization with no unexpected trends. Cash balances as of April 30, 2020 are lower when compared to June 30, 2019 (highlighted in gold on Table 1). This is because of the high liquidity needs at June 30, 2019 to meet annual debt and interest payments, legacy pension obligation payments, and annual operational requirements whereas more funds are being invested as of April 30, 2020.

An ongoing challenge is the Net Position Deficit. The underlying causes took years to build (largely heavy use of debt to finance capital asset investment versus a strategic blend of debt, state revolving funds, and cash). The effect is reflected in GLWA's high debt interest expense. The GLWA is regularly updating the FY 2030 forecast which helps to provide a pathway to a positive Net Position in the future.

Footnotes to Statement of Net Position

- a. *Cash and Investments* are reported at book value. Investments at June 30, 2019 are reported at market value. The April 30, 2020 values differ from the Cash and Investment section of this Financial Report Binder due to timing of certain items recognized on a cash versus accrual basis.
- b. *Due from (to) Other Funds* and *Due to (from) Other Funds* is shown at the gross level for sub-fund activity.
- c. *Other Assets* primarily consists of the contractual obligation receivable from DWSD related to reimbursement of bonded indebtedness for local system improvements.
- d. *Cash Held FBO Advance (for benefit of) DWSD* and *Cash Held FBO DWSD* represents the net difference between DWSD retail cash received from customers and net financial commitments as outlined in the Master Bond Ordinance.
- e. *Construction Work in Process* represents the beginning balance of CWIP plus any construction spending during the fiscal year. The balance will fluctuate based on the level of spend less any capitalizations or write-offs.
- f. *Deferred Inflow* and *Deferred Outflow* relate to financing activity and GLWA's share of the legacy General Retirement System (GRS) pension obligation.
- g. *Liabilities - Short-term* include accounts payable, retainage payable, and certain accrued liabilities. Some items, such as compensated absences and worker's compensation, are reviewed periodically but are only adjusted on an interim basis if there is a material change.
- h. *Other Liabilities* account for the cash receipts set aside for the Budget Stabilization Fund and the Water Residential Assistance Program.
- i. *Liabilities - Long-term* include bonds payable, lease payable, and legacy General Retirement System pension liabilities.
- j. *Net Position Deficit* is defined by accounting standards as the residual of all other elements presented in a statement of financial position. It is the difference between (a) assets and deferred outflows of resources and (b) liabilities and deferred inflows of resources. A net deficit occurs when the liabilities and deferred inflows exceed assets and deferred outflows. GLWA's net deficit is largely driven by an increase in depreciation expense as a result of the increase in the acquisition valuation approach for recording

capital asset values in the opening Statement of Net Position on January 2016. Efforts are underway to evaluate the net operating effect of this matter over the long term.

Statement of Revenues, Expenses and Changes in Net Position – All Funds Combined

This statement, shown in Table 2, is presented in summary format. The accrual basis of revenues and operations and maintenance expense vary from the revenue requirement basis presented in the *Budget to Actual Analysis* and the *Wholesale Billings, Receivables & Collections* sections of the April 2020 Financial Report Binder. Prior year ending balances are provided in the June 30, 2019 column as a reference for comparative purposes. Explanatory notes follow this statement.

**Table 2 – Statement of Revenues, Expenses and Changes in Net Position
– All Funds Combined
For the Ten Months ended April 30, 2020
(\$000)**

	Water	Percent of Revenue	Sewage Disposal	Percent of Revenue	Total Business- type Activities	Comparative June 30, 2019
Revenue						
Wholesale customer charges	\$ 257,758	93.5%	\$ 223,910	57.3%	\$ 481,668	\$ 584,172
Local system charges	17,746	6.4%	154,839	39.6%	172,586	201,341
Industrial waste charges	-	0.0%	6,836	1.7%	6,836	9,106
Pollutant surcharges	-	0.0%	5,072	1.3%	5,072	5,933
Other revenues	43	0.0%	385	0.1%	428	528
Total Revenues	\$ 275,547	100%	\$ 391,043	100%	\$ 666,590	\$ 801,079
Operating expenses						
Operations and Maintenance	106,927	38.8%	141,243	36.1%	248,169	293,863
Depreciation	107,503	39.0%	128,402	32.8%	235,905	309,115
Total operating expenses	214,430	77.8%	269,645	69.0%	484,074	602,978
Operating income	61,117	22.2%	121,399	31.0%	182,516	198,101
Total Nonoperating (revenue) expense	81,629	29.6%	121,265	31.0%	202,895	220,170
Increase/(Decrease) in Net Position	(20,512)	-7.4%	133	0.0%	(20,379)	(22,070)
Net position (deficit), beginning of year	<u>(76,882)</u>		<u>(123,943)</u>		<u>(200,825)</u>	<u>(178,755)</u>
Net position (deficit), end of year	\$ (97,394)		\$ (123,810)		\$ (221,203)	\$ (200,825)

Totals may be off due to rounding

Water Fund

- ✓ The decrease in Water Fund Net Position is \$20.5 million.
- ✓ Wholesale water customer charges of \$257.7 million account for 93.5% of Water System revenues.
- ✓ Operating expenses of \$214.4 million represent 77.8% of total operating revenue. Depreciation is the largest operating expense at \$107.5 million or 50.1% of operating expense.
- ✓ Operating income after operating expenses (including depreciation) equals \$61.1 million or 22.2% of operating revenue.
- ✓ The largest category within nonoperating activities is bonded debt interest expense of \$74.3 million (this equates to the bonded debt interest expense less the offset from DWSD contractual obligation income).

Sewage Disposal Fund

- ✓ The increase in the Sewage Disposal Fund Net Position is \$133 thousand.
- ✓ Wholesale customer charges of \$223.9 million account for 57.3% of Sewer System revenues. Wholesale customer charges are billed one-twelfth each month based on an agreed-upon historical average “share” of each customer’s historical flows which are formally revisited on a periodic basis. The result is no revenue shortfall or overestimation.
- ✓ Local system (DWSD) charges of \$154.8 million account for 39.6% of total operating revenues. These are also billed at one-twelfth of the annual revenue requirement.
- ✓ Operating expenses of \$269.6 million represent 69.0% of total operating revenue. Depreciation is the largest operating expense at \$128.4 million or 47.6% of total operating expense.
- ✓ Operating income after operating expenses (including depreciation) equals \$121.4 million or 31.0% of operating revenue.
- ✓ The largest category within nonoperating activities is bonded debt interest expense of \$99.1 million (this equates to the bonded debt interest expense less the offset from DWSD contractual obligation income).

Supplemental Schedule of Operations & Maintenance Expenses – All Funds Combined

This Supplemental Schedule of Operations & Maintenance Expenses (O&M) schedule is shown below in Table 3. This accrual basis of operations and maintenance expense may vary from the revenue requirement basis presented in the *Budget to Actual Analysis* section of the April 2020 Financial Report Binder. Explanatory notes follow this schedule.

**Table 3 – Supplemental Schedule of Operations & Maintenance Expenses
– All Funds Combined
For the Ten Months ended April 30, 2020
(\$000)**

	Water	Percent of Total	Sewage Disposal	Percent of Total	Total Business- type Activities	Percent of Total
Operating expenses						
Personnel						
Salaries & Wages	19,867	18.6%	39,781	28.2%	59,647	24.0%
Overtime	3,668	3.4%	2,595	1.8%	6,263	2.5%
Benefits	13,716	12.8%	7,246	5.1%	20,962	8.4%
Total Personnel	\$ 37,251	34.8%	\$ 49,621	35.1%	\$ 86,873	35.0%
Utilities						
Electric	21,306	19.9%	12,276	8.7%	33,583	13.5%
Gas	891	0.8%	3,507	2.5%	4,398	1.8%
Sewage	439	0.4%	1,419	1.0%	1,859	0.7%
Water	1	0.0%	2,965	2.1%	2,966	1.2%
Total Utilities	\$ 22,638	21.2%	\$ 20,168	14.3%	\$ 42,806	17.2%
Chemicals	4,583	4.3%	7,239	5.1%	11,822	4.8%
Supplies and other	9,594	9.0%	17,083	12.1%	26,677	10.7%
Contractual services	38,634	36.1%	48,368	34.2%	87,002	35.1%
Capital Adjustment	-	0.0%	-	0.0%	-	0.0%
Capital program allocation	(1,716)	-1.6%	(960)	-0.7%	(2,676)	-1.1%
Shared services allocation	(4,058)	-3.8%	(276)	-0.2%	(4,334)	-1.7%
Operations and Maintenance Expenses	\$ 106,927	100.0%	\$ 141,243	100.0%	\$ 248,169	100.0%

Totals may be off due to rounding.

- ✓ Core expenses for water and sewage disposal systems are utilities (17.2% of total O&M expenses) and chemicals (4.8%).
- ✓ Personnel costs (35.0% of total O&M expenses) include all salaries, wages, and benefits for employees as well as staff augmentation contracts that fill a vacant position (contractual transition services).
- ✓ Contractual services (35.1%) includes:
 - Water System costs of sludge removal and disposal services at the Northeast, Southwest and Springwells Water Treatment Plants (approximately \$6.2 million);
 - Sewage Disposal System costs for the operation and maintenance of the biosolids dryer facility (approximately \$12.9 million); and
 - Centralized and administrative contractual costs allocated to both systems for information technology, building maintenance, field, planning and other services.

Supplemental Schedule of Nonoperating Expenses – All Funds Combined

The Supplemental Schedule of Nonoperating Expenses – All Funds Combined is shown in Table 4. Explanatory notes follow this schedule.

Table 4 – Supplemental Schedule of Nonoperating Expenses – All Funds Combined
For the Ten Months ended April 30, 2020
(\$000)

	Water	Sewage Disposal	Total Business- type Activities	Comparative June 30, 2019
Nonoperating (Revenue)/Expense				
Interest income contractual obligation	\$ (18,629)	\$ (15,159)	\$ (33,788)	\$ (40,673)
Interest income DWSD Shortfall	-	(1,128)	(1,128)	(1,104)
Investment earnings	(7,348)	(6,940)	(14,288)	(26,518)
Other nonoperating revenue	(1,659)	(10)	(1,669)	(420)
Interest expense				-
Bonded debt	92,929	114,285	207,214	250,966
Lease obligation	14,567	17,805	32,372	39,264
Other obligations	4,033	1,311	5,343	6,368
Total interest expense	111,529	133,400	244,930	296,597
Other non-capital expense	-	-	-	-
Memorandum of Understanding	-	-	-	6,527
Capital Contribution	-	(5,960)	(5,960)	-
Amortization, issuance costs, debt	(13,466)	1,559	(11,907)	(3,995)
Amortization, raw water rights	2,972	-	2,972	3,567
(Gain) loss on disposal of capital assets	(1)	1,188	1,187	(81)
Loss on impairment of capital assets	-	-	-	1,025
Water Residential Assistance Program	1,010	1,392	2,402	2,024
Legacy pension expense	7,221	12,923	20,144	(16,778)
Total Nonoperating (Revenue)/Expense	\$ 81,629	\$ 121,265	\$ 202,895	\$ 220,170

Totals may be off due to rounding.

- ✓ Interest income on contractual obligation relates to the portion of the total GLWA debt obligation attributable to DWSD. This interest income offsets the total debt interest expense paid by GLWA on behalf of both entities monthly.
- ✓ Interest income DWSD shortfall represents interest from a budgetary shortfall loan from fiscal years 2016, 2017 and 2018 and is paid in accordance with the 2018 Memorandum of Understanding (MOU).
- ✓ Investment earnings in this report are reflected at book value. Any differences between the Basic Financial report and Cash and Investment section of this Financial Report binder are due to accrued interest and reversal of the market adjustment from

FY 2019. FY 2019 market value adjustments for Water and Sewer totaled of \$1.6 million and \$600 thousand, respectively.

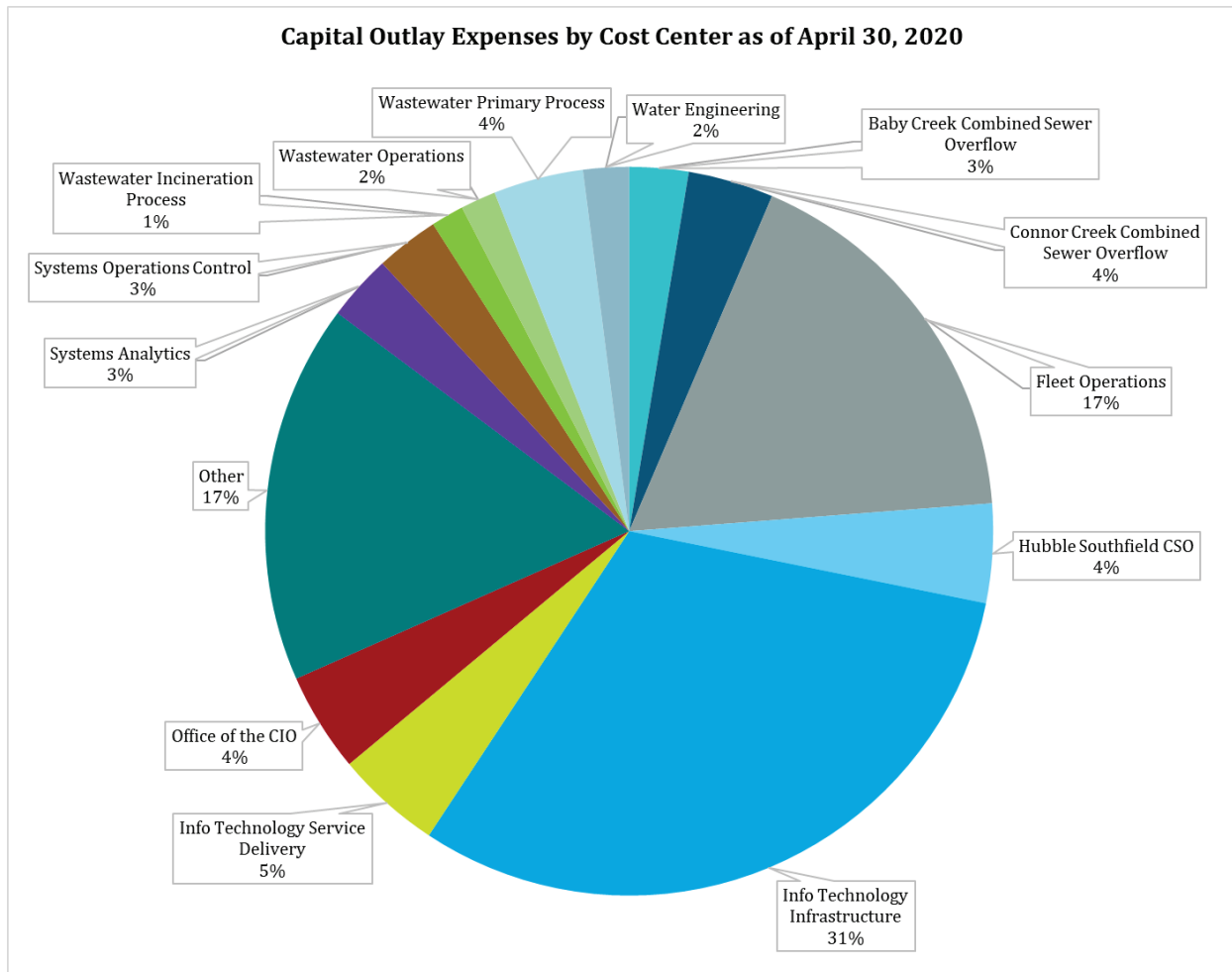
- ✓ Interest expense, the largest category of nonoperating expenses, is made up of three components:
 - Bonded debt;
 - Lease obligation for the regional assets from the City of Detroit; and
 - Other obligations such as an obligation payable to the City of Detroit for an allocation BC Notes related to assumed DWSD liabilities; acquisition of raw water rights related to the KWA Pipeline.
- ✓ Legacy Pension expense is calculated by GLWA annually based upon information provided by the City of Detroit General Retirement System (GRS). The expense varies each year based upon benefits paid, investment earnings and changes in actuarial assumptions. The FY 2020 entry was made in April based on required reports GLWA recently received from GRS. While typically an expense, changes in actuarial assumptions caused this item to be reflected as income for the year ending June 30, 2019.
FY 2019 Item of note:
- ✓ Sewer Other Non-operating expense includes the 2018 MOU Item 8a from June 27, 2018 for a final sewer lookback adjustment for DWSD of \$6.5 million.

Financial Activity Charts

Chart 1 – Capital Outlay – Water and Sewer System Combined

Capital Outlay represents purchases of equipment, software, and small facility improvement projects. It *excludes* any capital investment which is included in the monthly construction work-in-progress report related to the Capital Improvement Program. Some items span several months so the entire cost may not have been incurred yet. In addition, items are capitalized only if they meet GLWA's capitalization policy.

Through April 30, 2020, total capital outlay spend is \$12.4 million. Following this chart is a sample list of projects and purchases from the total spend of \$12.4 million:



Note: Due to rounding totals may not equal 100%.

Water Operations: Water Works Park South Garage renovation (\$171k); actuators (\$108k); power monitor (\$90k); submersible pressure sensor (\$83k); various Water

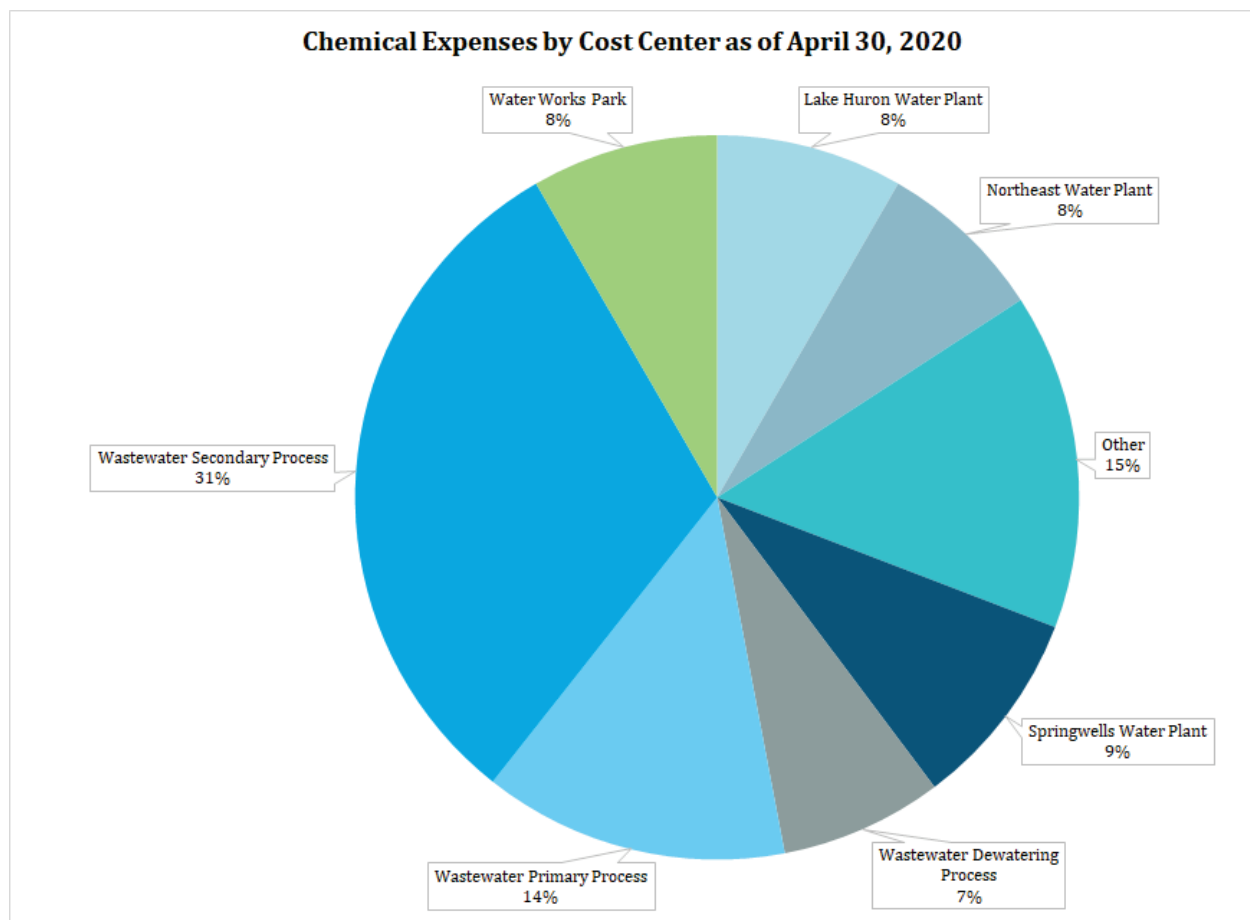
location building improvements (\$80k); low lift elevator repair (\$59k) and skid steer loader (\$44k).

Wastewater Operations: Accusonic flow meters (\$540k); pumps at various CSO's (\$267k); pinion gears (\$254k); roll off truck at Water Resource Recovery Facility (WRRF) (\$188k); chemical induction unit (\$179k); Transformer C structure at WRRF (\$143k); boilers (\$131k); chemical feed pump (\$96k); Flygt pump (\$78k); water heater for Scum building (\$76k); and skid steer loader (\$44k).

Centralized & Administrative Facilities: Low voltage wiring services (\$2.9m); trucks and vehicles (\$2.0m); IT & 17th floor renovation and furniture (\$636k); IT software (\$464k); IT computers (\$274k); Sewer meter support (\$211k); IT Hardware/software (\$187k); transmitters (\$118k); multimeter (\$91k); IT firewalls (\$82k); supplies (\$75k); and IT premium hardware support (\$74k) and vehicle up-lifting (\$56k); 'other' category expenses include: bathroom renovation (\$83k) for the Logistics and Materials team.

Chart 2 – Chemical Spend – Water and Sewer System Combined

Chemical spend is \$11.8 million through April 30, 2020. The allocation is shown in the chart below and remains consistent with prior periods.



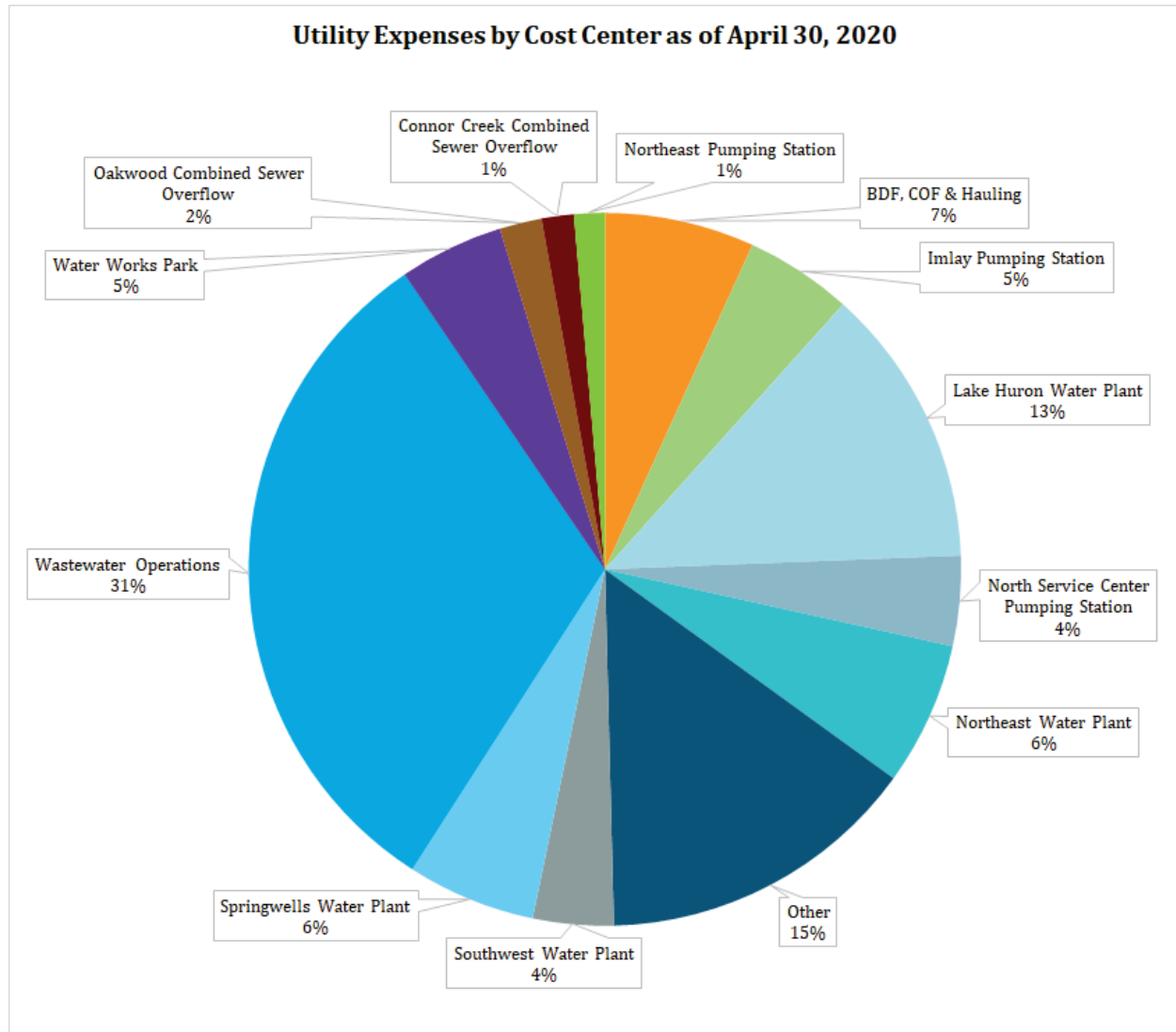
Note: "Other" includes Combined Sewer Overflow (CSO), portions of the Wastewater process and two departments from Water. Due to rounding totals may not equal 100%.

All amounts are unaudited unless otherwise noted.

GLWA Audit Committee July 17, 2020

Chart 3 – Utility Spend – Water and Sewer System Combined

Utility spend is \$42.8 million through April 30, 2020. The allocation is shown in the chart below and consistent with prior periods.



Note: Due to rounding totals may not equal 100%.

Financial Operations KPI

This key performance indicator shown in **Chart 1 – Bank Reconciliation Completion Status** below provides a measure of the progress made in the month-end close process which includes bank reconciliations with a completed status at month end. Through April 30, 2020 all reconciliations are up-to-date and complete.

There were no changes in accounts from March 2020.

Chart 1 – Bank Reconciliation Completion Status

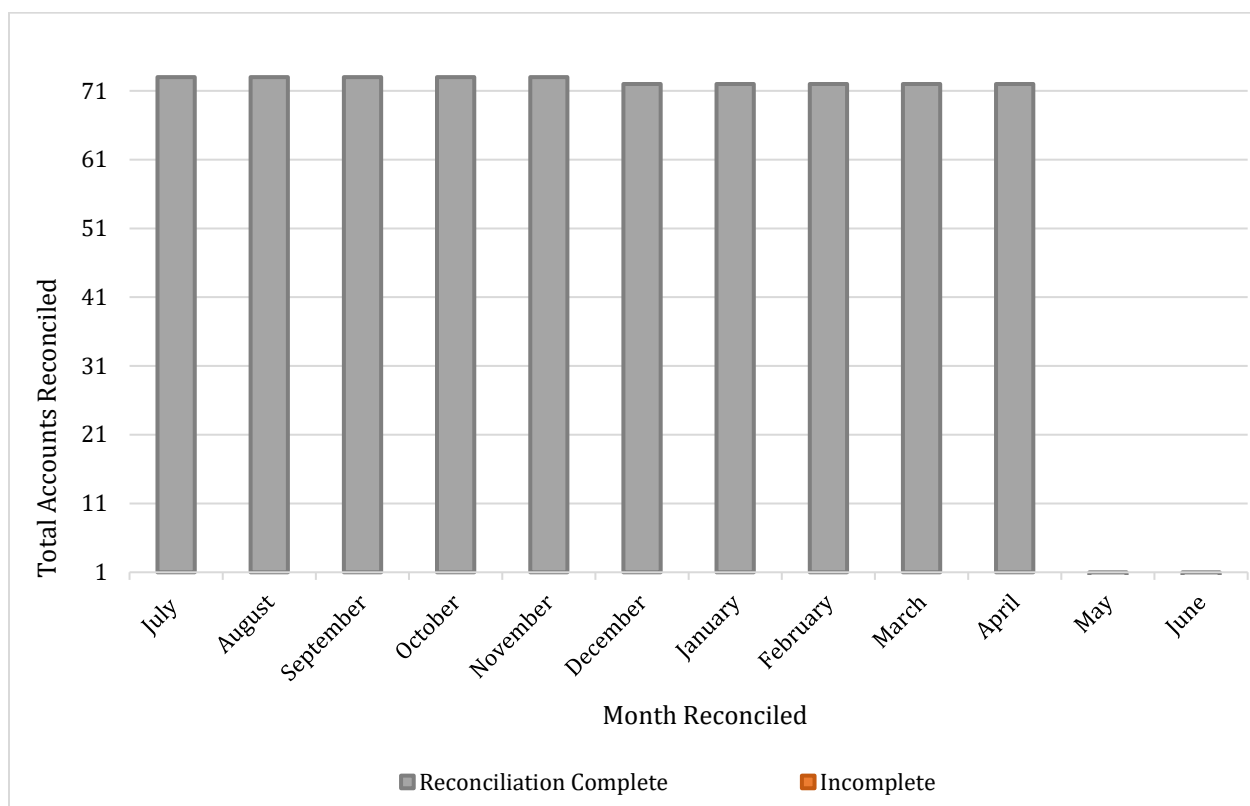


Table 1 – Fiscal Year 2020 GL Cash Account Rollforward

Total GL Cash accounts as of July 1, 2019	71
New GL Cash accounts	2
Inactivated GL Cash accounts	<u>(1)</u>
Total GL Cash accounts as of April 30, 2020	<u><u>72</u></u>



The monthly Budget to Financial Statements Crosswalk includes the following.

1. Crosswalk Budget Basis to Financial Reporting Basis
2. Explanatory Notes for Crosswalk

Purpose for Crosswalk: The Great Lakes Water Authority establishes a “Revenue Requirements” budget for the purposes of establishing charges for services. The financial report is prepared in accordance with Generally Accepted Accounting Policies for enterprise funds of a local government. Because the budget and the financial statements are prepared using different basis of accounting, the crosswalk reconciles the “Net Revenue Requirement Basis” from the Budget to Actual Analysis (Table 1A and Table 1B) to the “Increase/(Decrease) in Net Position” in Table 2 of the Basic Financial Statements in the monthly Financial Report.

The Authority has a Water Master Bond Ordinance and a Sewer Master Bond Ordinance (MBO). The Ordinances provide additional security for payment of the bonds. All revenues of the system are deposited into Revenue Receipts Funds which are held in trust by a trustee. The cash is moved to multiple bank accounts monthly based on 1/12th of the budget as defined in the MBO (“the flow of funds”) for all revenue requirements except for the Debt Service monthly transfer. The Debt Service monthly requirement is computed by the trustee, U.S. Bank. The cash transfer for debt is net of investment earnings that remain in the debt service accounts to be used for debt service.

The budget is prepared on a modified cash basis. The revenue requirements are determined based upon the cash needed to meet the financial commitments as required by the Master Bond Ordinance.

- Operation & Maintenance (O&M) expenses based on an accrual basis
- O&M Legacy Pension Allocation (includes administrative fee) and Accelerated Legacy Pension Allocation (includes B&C notes obligation) based on a cash basis
- Debt Service Allocation based on a cash set aside basis to provide the cash for the debt payments on the due dates
- Lease payments based on a cash basis
- Water Residential Assistance Program based on a percentage of budgeted revenue
- Regional System Improvement & Extension Fund Allocation on a cash basis

Budget: In Table 1A and Table 1B of the Budget to Actual Analysis the ‘Revenues’ section is the accrual basis revenues that are available to meet the ‘Revenue Requirements’. The ‘Revenue Requirements’ section budget column indicates the annual cash transfers to be made.

Financial Reporting: The Authority's financial statements are prepared in conformity with generally accepted accounting principles (GAAP) as applied to government units. The Authority maintains its records on the accrual basis of accounting to conform to GAAP. Revenues from operations, investments and other sources are recorded when earned. Expenses (including depreciation) are recorded when incurred.

Table 1 – Crosswalk Budget Basis to Financial Reporting Basis provides a reconciliation of the “Net Difference” in Table 1A and Table 1B in the Budget to Actual Analysis report to the “Increase/(Decrease) in Net Position” in Table 2 of the Basic Financial Statements in this monthly Financial Report. Explanatory notes follow the Crosswalk shown in Table 1 below.

Table 1 – Crosswalk Budget Basis to Financial Reporting Basis (\$000)
For the Ten Months Ended April 30, 2020

	Water	Sewer	Total
Net Revenue Requirement Budget Variance (a)	\$ 1,062	\$ 8,531	\$ 9,593
Budgetary categories adjustments to financial reporting basis			
Pension delayed accounting election adjustments			
Current year pension transfers/payments recorded as deferral (c)	9,534	17,063	26,597
Prior year pension contribution accounted for in current year (d)	(7,221)	(12,923)	(20,144)
Administrative prepaid adjustment (e)	-	-	-
Debt service (f)	36,572	77,180	113,752
Accelerated pension B&C notes obligation portion (g)	147	330	477
Lease payment (h)	4,183	5,112	9,295
WRAP (i)	405	611	1,016
DWSD short term allocation (j)	1,132	10,749	11,881
Operating Reserve Deposit (j)	3,313	-	3,313
Improvement & Extension Fund (j)	22,456	17,625	40,081
Nonbudgeted financial reporting categories adjustments			
Depreciation (k)	(107,503)	(128,402)	(235,905)
Amortization (k)	10,494	(1,559)	8,935
Other nonoperating income (k)	1,660	10	1,670
Other nonoperating expense (k)	-	-	-
Gain(loss) on disposal of capital assets (k)	1	(1,188)	(1,187)
Raw water rights (l)	2,094	-	2,094
Investment earnings construction fund (m)	1,159	1,034	2,193
Capital contribution (n)	-	5,960	5,960
Net Position Increase/(Decrease) per Financial Statements (b)	\$ (20,512)	\$ 133	\$ (20,379)

Table 2- Explanatory Notes for Crosswalk

- (a) Source: Budget to Actual Table 1A and Table 1B in Monthly Financial Binder
- (b) Source: Basic Financial Statements Table 2 in Monthly Financial Binder
- (c) Current year pension payments are an expense for budget purposes but not for financial reporting purposes.

- (d) Prior year pension payments are accounted for in the current year financial statements.
- (e) The administrative fee is part of the O&M Legacy Pension shown as an expense for budget purposes. For financial reporting purposes part of the administrative fee is considered prepaid based on the prior year General Retirement System audit information and therefore not an expense for the current year financial reporting. The prepaid portion is adjusted in June each year.
- (f) Debt service (principal and interest payments) are shown as an expense for budget purposes. Most of the adjustment relates to principal payments which are not an expense for financial reporting purposes. A portion of the adjustment relates to interest expense variances on state revolving fund debt due to the timing of payment draws. The cash set aside basis for interest expense generally is the same as the accrual basis for financial reporting.
- (g) The accelerated pension payment includes the obligation payable for the B&C notes. The pension portion is included in item (c) above. This adjustment relates to the B&C note obligation payments. The principal and interest cash basis payments are treated as an expense for budget purposes. The principal portion is not an expense for financial reporting purposes. For financial reporting purposes interest is expensed on an accrual basis which is different from the cash basis.
- (h) The lease payment is included as an expense for budget and includes both principal and interest payments. Most of the adjustment relates to the principal payments which are not an expense for financial reporting purposes. A portion of the adjustment relates to interest expense which is recorded on an accrual basis for financial reporting which is different from the cash basis.
- (i) WRAP is shown as an expense for budget purposes. For financial reporting purposes the expense is not recognized until the funds have been transferred to the WRAP administrator. The adjustment shown is the amount of current year transfers that have not been transferred to the WRAP administrator. Note that there are funds from the prior year that have not been transferred to the WRAP administrator.
- (j) The DWSD short term allocation, Operating Reserve Deposit, and Improvement & Extension Fund transfers are shown as an expense for budget purposes but not for financial reporting purposes. For FY 2020, the Sewer Improvement and Extension Fund adjustments also reflect \$1.5 million in Sewer Improvement and Extension Fund expenses relating to repairs paid for through the Sewer Improvement and Extension Fund. The Water Improvement and Extension Fund

also reflects \$138 thousand in Water Improvement and Extension expenses relating to repairs paid for through the Water Improvement and Extension Fund. These are consolidated expenses for financial reporting purposes but are not reflected in the current Operations and Maintenance budget expenses.

- (k) Certain nonoperating income and expenses are reported in financial statements only.
- (l) The water service contract with Flint includes a license for raw water rights which has been recorded as an asset and liability by the Authority. The contract provides a credit to Flint as Flint satisfies its monthly bond payment obligation to KWA. This KWA credit is treated as a noncash payment of principal and interest on the liability recorded for the raw water rights. For budget, wholesale customer charges are net of the anticipated KWA credits to Flint as that is the cash that will be received and available to meet the budgeted revenue requirements. For financial reporting basis the Flint wholesale charges are recorded at the total amount billed. When the KWA credit is issued, the receivable from Flint is reduced and the principal and interest payments on the liability for the raw water rights are recorded as a noncash transaction. Most of the adjustment shown relates to the principal reduction made for the credits applied which are not an expense for financial reporting basis.
- (m) Investment earnings from the construction fund are not shown as revenue in the budget and are shown as revenue in the financial statements. Construction fund investment earnings are excluded from the definition of revenue for budget purposes as they are used for construction costs and are not used to meet the revenue requirements in the budget.
- (n) The capital contribution is a one-time payment made to GLWA by the Oakland Macomb Interceptor Drainage District (OMIDD) as part of a contract amendment to the OMIDD Wastewater Disposal Services Contract.



The Monthly Construction Work in Progress (CWIP) Summary includes the following.

1. Water System Construction Work in Progress costs incurred to date
2. Sewer System Construction Work in Progress costs incurred to date

Construction Work in Progress

Great Lakes Water Authority (GLWA) capital improvement projects generally span two or more years due to size and complexity. Therefore, the GLWA Board of Directors adopts a five-year capital improvement plan (CIP). The CIP is a five-year, rolling plan which is updated annually and formally adopted by the GLWA Board of Directors. 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.

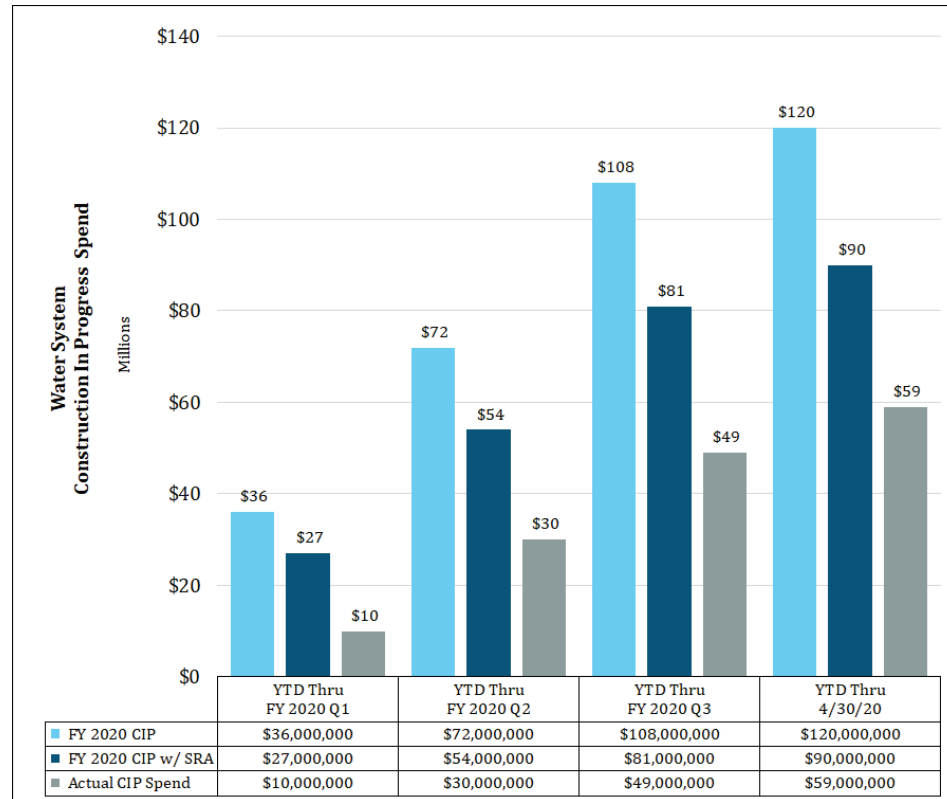
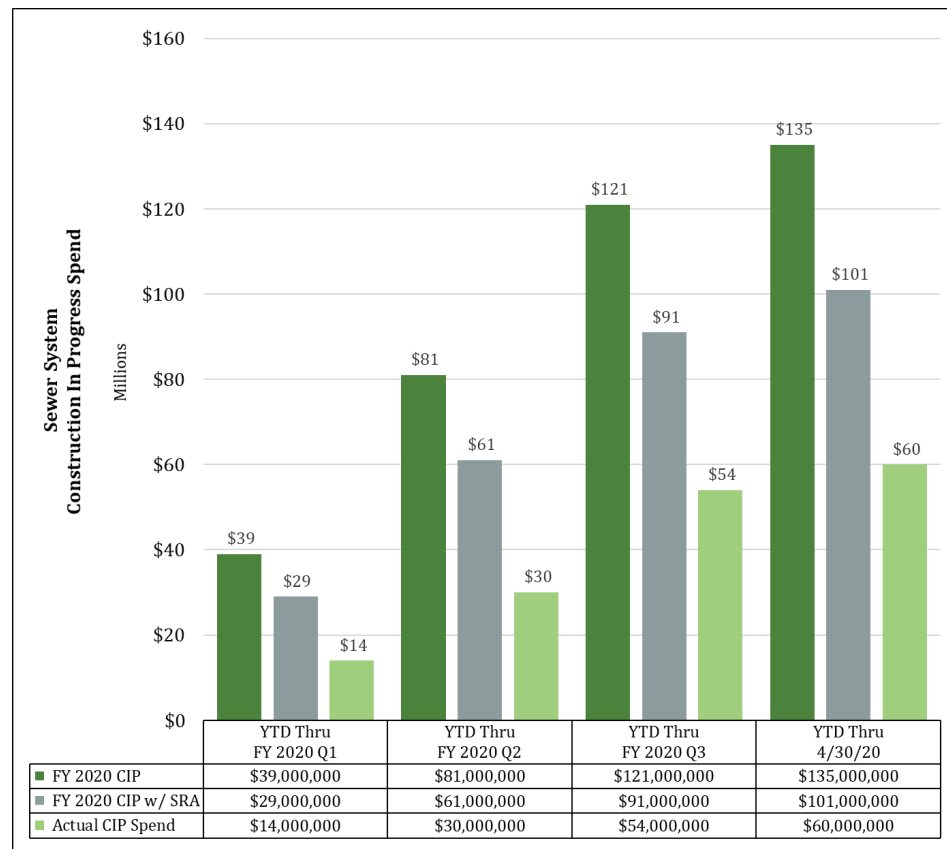
This report presents quarterly and monthly CWIP spending against the prorated CIP in total and the CIP adjusted for the SRA. The prorated CIP is calculated by dividing the total fiscal year 2020 board-approved CIP plan by twelve equal months. It should be noted that for operational purposes, GLWA utilizes Primavera P6 for refined monthly projections for cash management and project management.

Chart 1 – Water System Construction in Work in Progress Spend

As of April 2020, the Water system incurred over \$59 million of construction costs to date. This is 49% of the fiscal year 2020 prorated total CIP through April and 66% of the financial plan which is labeled as the FY 2020 CIP w/SRA in the chart below. It is anticipated that the gap will be reduced by the end of the fiscal year.

Chart 2 – Sewer System Construction in Work in Progress Spend

As of April 2020, the Sewer system incurred over \$60 million of construction costs to date. This is 44% of the fiscal year 2020 prorated total CIP through April and 59% of the financial plan which is labeled as the FY 2020 CIP w/SRA in the chart below. It is anticipated that the gap will be reduced by the end of the fiscal year.

Chart 1 – Water System Construction Work in Progress Spend

Chart 2 – Sewer System Construction Work in Progress Spend




This report includes the following.

1. Master Bond Ordinance (MBO) Required Transfers to Accounts Held by GLWA
2. Master Bond Ordinance (MBO) Required Transfers to Accounts Held by DWSD

MBO Transfers to Accounts Held by GLWA

GLWA Transfers: The Treasury team completes required MBO transfers on the first business day of each month. These transfers are completed in accordance with the Great Lakes Water Authority (GLWA) and Detroit Water & Sewerage Department (DWSD) budgets as approved and adopted by the GLWA Board of Directors and DWSD Board of Water Commissioners annually.

Monthly transfers for Operations & Maintenance (O&M), Pension, and Water Residential Assistance Program (WRAP) are one-twelfth of the annual, budgeted amount. Budget stabilization should not require additional funding due to new, baseline funding levels established as part of the June 2018 Memorandum of Understanding but is included to reflect historical activity. Transfers to the Extraordinary Repair & Replacement (ER&R) fund are completed annually based on budget and year-end fund status.

Table 1 – GLWA FY 2020 Water MBO Transfers reflects the required transfers for FY 2020 completed through April 1, 2020. MBO transfers for water totaling \$125.2 million have been transferred to GLWA accounts.

Table 2 – GLWA FY 2020 Sewer MBO Transfers reflects the required transfers for FY 2020 completed through April 1, 2020. MBO transfers for sewer totaling \$179.5 million have been transferred to GLWA accounts.

Table 3 – GLWA MBO Transfer History reflects historical transfers for FY 2016 through FY 2020 to date.

Table 1 – GLWA FY 2020 Water MBO Transfers

WATER							
	Operations & Maintenance	Pension Sub Account	Pension Obligation	WRAP	Budget Stabilization (For Benefit of DWSD)	Extraordinary Repair & Replacement (ER&R)	Total Water
FY 2020							
July 2019	10,957,542	504,000	891,308	165,067	-	-	12,517,917
August 2019	10,957,542	504,000	891,308	165,067	-	-	12,517,917
September 2019	10,957,542	504,000	891,308	165,067	-	-	12,517,917
October 2019	10,957,542	504,000	891,308	165,067	-	-	12,517,917
November 2019	10,957,542	504,000	891,308	165,067	-	-	12,517,917
December 2019	10,957,542	504,000	891,308	165,067	-	-	12,517,917
January 2020	10,957,542	504,000	891,308	165,067	-	-	12,517,917
February 2020	10,957,542	504,000	891,308	165,067	-	-	12,517,917
March 2020	10,957,542	504,000	891,308	165,067	-	-	12,517,917
April 2020	10,957,542	504,000	891,308	165,067	-	-	12,517,917
Total FY 2020	\$109,575,420	\$5,040,000	\$8,913,080	\$1,650,670	\$0	\$0	\$125,179,170

Table 2 – GLWA FY 2020 Sewer MBO Transfers

SEWER							
	Operations & Maintenance	Pension Sub Account	Pension Obligation	WRAP	Budget Stabilization (For Benefit of DWSD)	Extraordinary Repair & Replacement (ER&R)	Total Sewer
FY 2020							
July 2019	15,588,100	902,000	1,223,959	240,608	-	-	17,954,667
August 2019	15,588,100	902,000	1,223,959	240,608	-	-	17,954,667
September 2019	15,588,100	902,000	1,223,959	240,608	-	-	17,954,667
October 2019	15,588,100	902,000	1,223,959	240,608	-	-	17,954,667
November 2019	15,588,100	902,000	1,223,959	240,608	-	-	17,954,667
December 2019	15,588,100	902,000	1,223,959	240,608	-	-	17,954,667
January 2020	15,588,100	902,000	1,223,959	240,608	-	-	17,954,667
February 2020	15,588,100	902,000	1,223,959	240,608	-	-	17,954,667
March 2020	15,588,100	902,000	1,223,959	240,608	-	-	17,954,667
April 2020	15,588,100	902,000	1,223,959	240,608	-	-	17,954,667
Total FY 2020	\$155,881,000	\$9,020,000	\$12,239,590	\$2,406,080	\$0	\$0	\$179,546,670

Table 3 – GLWA MBO Transfer History

GLWA MBO Transfer History							
WATER							
	Operations & Maintenance	Pension Sub Account	Pension Obligation	WRAP	Budget Stabilization (For Benefit of DWSD)	Extraordinary Repair & Replacement (ER&R)	Total Water
Total FY 2016	\$71,052,000	\$6,037,100	\$10,297,200	\$1,983,300	\$2,326,900	\$606,000	\$92,302,500
Total FY 2017	111,879,600	6,037,200	10,297,200	2,077,200	360,000	-	130,651,200
Total FY 2018	121,562,604	6,048,000	10,695,696	2,159,400	-	-	140,465,700
Total FY 2019	121,562,604	6,048,000	10,695,696	2,061,000	-	-	140,367,300
Total FY 2020 (10 months)	109,575,420	5,040,000	8,913,080	1,650,670	-	-	125,179,170
Life to Date	\$535,632,228	\$29,210,300	\$50,898,872	\$9,931,570	\$2,686,900	\$606,000	\$628,965,870
SEWER							
	Operations & Maintenance	Pension Sub Account	Pension Obligation	WRAP	Budget Stabilization (For Benefit of DWSD)	Extraordinary Repair & Replacement (ER&R)	Total Sewer
Total FY 2016	\$100,865,600	\$10,838,400	\$14,025,800	\$2,523,400	\$5,591,700	\$779,600	\$134,624,500
Total FY 2017	175,858,800	10,838,400	14,026,800	2,654,400	2,654,400	-	206,032,800
Total FY 2018	191,079,396	10,824,000	14,687,496	2,760,804	-	-	219,351,696
Total FY 2019	191,079,396	10,824,000	14,687,496	2,870,992	-	-	219,461,884
Total FY 2020 (10 months)	155,881,000	9,020,000	12,239,590	2,406,080	-	-	179,546,670
Life to Date	\$814,764,192	\$52,344,800	\$69,667,182	\$13,215,676	\$8,246,100	\$779,600	\$959,017,550

MBO Required and Lease Payment Transfers to DWSD

DWSD Transfers: The GLWA Treasury team completes the required MBO transfers on the first business day of each month. These transfers are completed in accordance with the GLWA and DWSD budgets as approved and adopted by the GLWA Board of Directors and DWSD Board of Water Commissioners annually. Transfers are coordinated with other areas of GLWA Financial Services in advance of the first business day of each month. GLWA Treasury sends confirmation of transfers made to DWSD Treasury.

Monthly transfers for O&M and O&M Pension are one-twelfth of the annual, budgeted amount. The annual lease payment, as stated in the Water & Sewer Lease Agreements, is \$22,500,000 for Water and \$27,500,000 for Sewer. The monthly lease transfer is one-twelfth of the amount as stated in the Lease agreements unless otherwise designated by DWSD. Per Section 3.5 of the Lease, the Lease payment may be used for (a) bond principal and interest for Local System Improvements, (b) bond principal and interest for the City's share of common-to-all System Improvements, and (c) Local System improvements.

Table 4 – DWSD FY 2020 Water MBO Transfers reflects the required transfers for FY 2020 completed through April 1, 2020. MBO transfers for Water totaling \$48.2 million have been transferred to accounts held by DWSD. For FY 2020, DWSD has requested that \$3,548,000 of the lease payment be utilized to offset a portion of debt service of which one-twelfth is applied monthly.

Table 5 – DWSD FY 2020 Sewer MBO Transfers reflects the required transfers for FY 2020 completed through April 1, 2020. MBO transfers for Sewer totaling \$73.9 million have been transferred to accounts held by DWSD. For FY 2020, DWSD has requested that \$5,032,700 of the lease payment be utilized to offset a portion of debt service of which one-twelfth is applied monthly. DWSD has also requested that for December 2019 – June 2020, \$1 million be withheld each month from the Operations & Maintenance transfer to address FY 2020 projected shortfall in retail revenue collections. Lastly, Operations & Maintenance transfers of \$2.6 million in December 2019 and \$4.5 million in February 2020 have been returned from DWSD to address the FY 2020 projected shortfall. This return of funds adjusts the total MBO transfers through April 1, 2020 to \$66.8 million.

Table 6 – DWSD MBO and Lease Payment Transfer History reflects historical transfers for FY 2016 through FY 2020 to date.

Table 4 – DWSD FY 2020 Water MBO Transfers

WATER				
	<u>Operations & Maintenance</u>	<u>Pension</u>	<u>Lease Payment (I&E Fund)</u>	<u>Total Water</u>
FY 2020				
July 2019	2,888,533	356,000	1,579,333	4,823,866
August 2019	2,888,533	356,000	1,579,333	4,823,866
September 2019	2,888,533	356,000	1,579,333	4,823,866
October 2019	2,888,533	356,000	1,579,333	4,823,866
November 2019	2,888,533	356,000	1,579,333	4,823,866
December 2019	2,888,533	356,000	1,579,333	4,823,866
January 2020	2,888,533	356,000	1,579,333	4,823,866
February 2020	2,888,533	356,000	1,579,333	4,823,866
March 2020	2,888,533	356,000	1,579,333	4,823,866
April 2020	2,888,533	356,000	1,579,333	4,823,866
Total FY 2020	\$28,885,330	\$3,560,000	\$15,793,330	\$48,238,660

Table 5 – DWSD FY 2020 Sewer MBO Transfers

SEWER				
	<u>Operations & Maintenance</u>	<u>Pension</u>	<u>Lease Payment (I&E Fund)</u>	<u>Total Sewer</u>
FY 2020				
July 2019	5,778,625	238,000	1,872,275	7,888,900
August 2019	5,778,625	238,000	1,872,275	7,888,900
September 2019	5,778,625	238,000	1,872,275	7,888,900
October 2019	5,778,625	238,000	1,872,275	7,888,900
November 2019	5,778,625	238,000	1,872,275	7,888,900
December 2019	4,778,625	238,000	1,872,275	6,888,900
January 2020	4,778,625	238,000	1,872,275	6,888,900
February 2020	4,778,625	238,000	1,872,275	6,888,900
March 2020	4,778,625	238,000	1,872,275	6,888,900
April 2020	4,778,625	238,000	1,872,275	6,888,900
Total MBO Transfers	52,786,250	2,380,000	18,722,750	73,889,000
<u>Adjustment to MBO Transfers</u>				
December 2019	(2,600,000)	-	-	(2,600,000)
February 2020	(4,500,000)	-	-	(4,500,000)
Total FY 2020	45,686,250	\$2,380,000	\$18,722,750	66,789,000

Table 6 – DWSD MBO and Lease Payment Transfer History

Transfers to DWSD				
WATER				
	Operations & Maintenance	Operations & Maintenance Pension	Lease Payment (I&E Fund)	Total Water
FY 2016 *				
MBO/Lease Requirement	\$26,185,600	\$4,262,700	\$22,500,000	\$52,948,300
Offset to Debt Service	-	-	(2,326,900)	(2,326,900)
Net MBO Transfer	26,185,600	4,262,700	20,173,100	50,621,400
FY 2017				
MBO/Lease Requirement	33,596,400	4,262,400	22,500,000	60,358,800
Offset to Debt Service	-	-	-	-
Net MBO Transfer	33,596,400	4,262,400	22,500,000	60,358,800
FY 2018				
MBO/Lease Requirement	35,059,704	4,272,000	22,500,000	61,831,704
Offset to Debt Service	-	-	(1,875,000)	(1,875,000)
Net MBO Transfer	35,059,704	4,272,000	20,625,000	59,956,704
FY 2019				
MBO/Lease Requirement	35,484,300	4,272,000	22,500,000	62,256,300
Offset to Debt Service	-	-	(3,972,200)	(3,972,200)
Net MBO Transfer	35,484,300	4,272,000	18,527,800	58,284,100
FY 2020 (10 months)				
MBO/Lease Requirement	28,885,330	3,560,000	18,750,000	51,195,330
Offset to Debt Service	-	-	(2,956,670)	(2,956,670)
Net MBO Transfer	28,885,330	3,560,000	15,793,330	48,238,660
Life-to-Date				
MBO/Lease Requirement	159,211,334	20,629,100	108,750,000	288,590,434
Offset to Debt Service	-	-	(11,130,770)	(11,130,770)
Total Water	\$159,211,334	\$20,629,100	\$97,619,230	\$277,459,664
SEWER				
	Operations & Maintenance	Operations & Maintenance Pension	Lease Payment (I&E Fund)	Total Sewer
FY 2016 *				
MBO/Lease Requirement	\$19,774,300	\$2,861,800	\$27,500,000	\$50,136,100
Offset to Debt Service	-	-	(19,991,500)	(19,991,500)
Total MBO Transfer	19,774,300	2,861,800	7,508,500	30,144,600
FY 2017				
MBO/Lease Requirement	41,535,600	2,862,000	27,500,000	71,897,600
Offset to Debt Service	-	-	-	-
Total MBO Transfer	41,535,600	2,862,000	27,500,000	71,897,600
FY 2018				
MBO/Lease Requirement	60,517,992	2,856,000	27,500,000	90,873,992
Offset to Debt Service	-	-	(9,166,664)	(9,166,664)
Total MBO Transfer	60,517,992	2,856,000	18,333,336	81,707,328
FY 2019				
MBO/Lease Requirement	56,767,920	2,856,000	27,500,000	87,123,920
Offset to Debt Service	-	-	(4,415,000)	(4,415,000)
Total MBO Transfer	56,767,920	2,856,000	23,085,000	82,708,920
FY 2020 (10 months)				
MBO/Lease Requirement	52,786,250	2,380,000	22,916,667	78,082,917
Offset to address shortfall	(7,100,000)	-	-	(7,100,000)
Offset to Debt Service	-	-	(4,193,917)	(4,193,917)
Total MBO Transfer	45,686,250	2,380,000	18,722,750	66,789,000
Life-to-Date				
MBO/Lease Requirement	231,382,062	13,815,800	132,916,667	378,114,529
Offsets	(7,100,000)	-	(37,767,081)	(44,867,081)
Total Sewer	\$224,282,062	\$13,815,800	\$95,149,586	\$333,247,448

* Note: FY 2016 lease transfer amounts shown do not include prepayment on the lease amount for the 6 months period before bifurcation.

All amounts are unaudited unless otherwise noted.

GLWA Audit Committee July 17, 2020



This report includes the following:

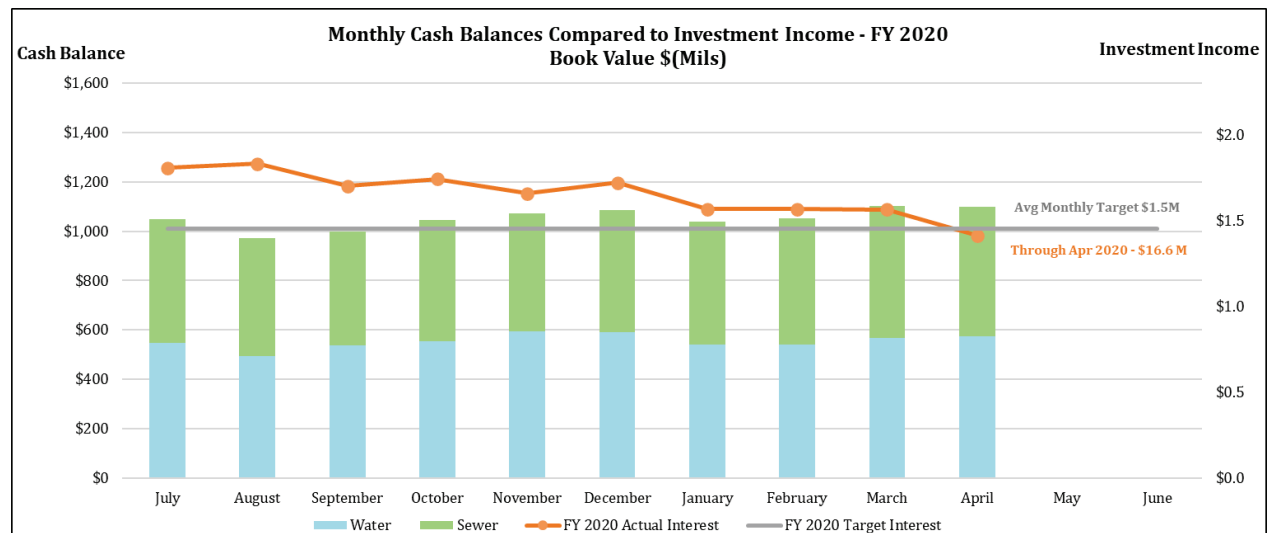
1. Monthly Cash Balances Compared to Investment Income
2. Cash Balance Detail

Monthly Cash Balances Compared to Investment Income

GLWA's investment holdings comply with the requirements of Public Act 20 of 1948, as amended and the GLWA Investment Policy. The cash balances shown in this report include bank deposits, money market funds, a local government investment pool, U.S. Treasuries, Federal Agencies, and commercial paper.

Cash and investment balances change each month based on Master Bond Ordinance (MBO) funding requirements, operational needs, capital spending pace, and mandatory debt payments. Investment income fluctuates monthly based on cash and investment balances as well as market conditions and investment strategy. The cumulative investment earnings of \$16.6 million through April 2020 is 95% of the FY 2020 target of \$17.4 million.

Chart 1 - Monthly Cash Balances Compared to Investment Income - Through April 2020



\$(Mils)	July	August	September	October	November	December	January	February	March	April	May	June
Water	\$549	\$494	\$536	\$555	594	592	541	541	566	575		
Sewer	\$501	\$479	\$464	\$489	479	493	498	510	536	524		
Total	\$1,050	\$973	\$1,000	\$1,044	\$1,073	\$1,085	\$1,039	\$1,052	\$1,102	\$1,099		
Investment Income	\$1.8	\$1.8	\$1.7	\$1.7	\$1.7	\$1.7	\$1.6	\$1.6	\$1.6	\$1.4		

Cash Balance Detail

Funds Held By GLWA: GLWA cash balances are held in accounts as defined by the Master Bond Ordinance. The accounts are funded by monthly transfers, as stipulated in the MBO, on the first business day of each month. The “operations and maintenance” (O&M) fund transfer amounts are based upon the annual O&M budget approved by the GLWA Board of Directors for the regional systems and by the Board of Water Commissioners for the Detroit Water & Sewerage Department (DWSD) local system budgets. The water and sewer funds held by GLWA and their purpose, as defined by the MBO, are listed below.

Funds Held Within Trust:

- Receiving – all retail and wholesale revenues collected which are distributed in subsequent month(s)
- Debt Service – funds set aside for debt service and debt reserve requirements
- Pension Obligation – funds set aside to meet GLWA’s annual funding requirements for the legacy General Retirement System Pension Plan
- Water Residential Assistance Program (WRAP) – funds set aside to be used to provide financial assistance to qualified residents throughout the local and regional water system as directed by program guidelines
- Budget Stabilization – funds held by GLWA on behalf of DWSD that can be applied against shortfalls in retail revenues
- Emergency Repair & Replacement (ER&R) – funds set aside to pay the costs for major unanticipated repairs and replacements of the local and regional systems
- Improvement & Extension (I&E) – funds set aside to be used for the improvements, enlargements and extensions of the regional system

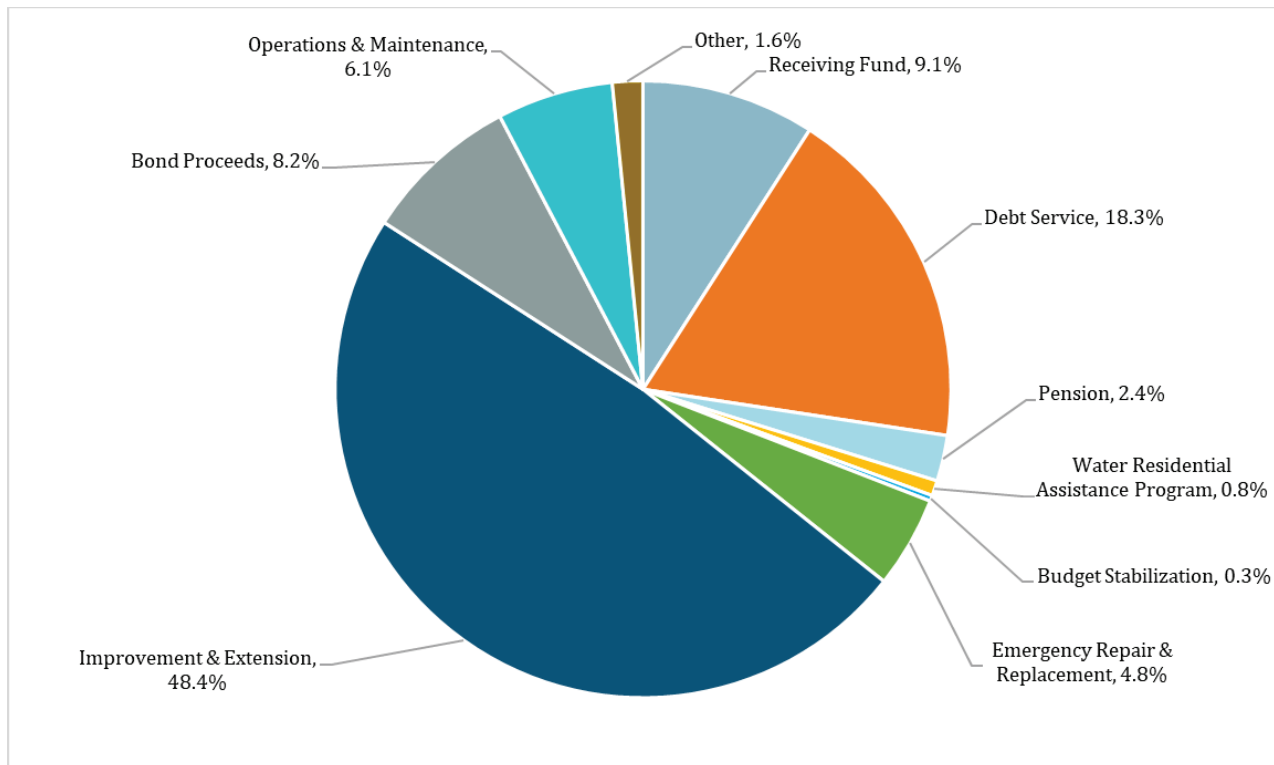
Funds Held Outside Trust:

- Bond Proceeds – funds raised from debt issuance used for costs of repairs, construction, and improvements of the regional system
- Operations & Maintenance (O&M) – funds used to meet the operational and maintenance requirements of the regional system
- Other – retainage funds held on behalf of contractors and security deposit funds held on behalf of the City of Flint

A [chart](#) depicting the follow of funds is online at glwater.org as well as the [MBO](#) documents.

Chart 2 – Cash Balances - Water Funds as of April 30, 2020 - Shows the allocation of the balance among the different categories defined in the section above. The total cash balance for Water Funds as of April 30, 2020 is \$575 million. The allocation of balances among the I&E, bond proceeds, and debt service reserve funds reflects GLWA’s commitment to funding capital improvements and meeting debt reserve requirements while simultaneously increasing I&E resources to fund pay-as-you-go capital funding to reduce long-term debt in the future.

Chart 2 – Cash Balances - Water Funds as of April 30, 2020

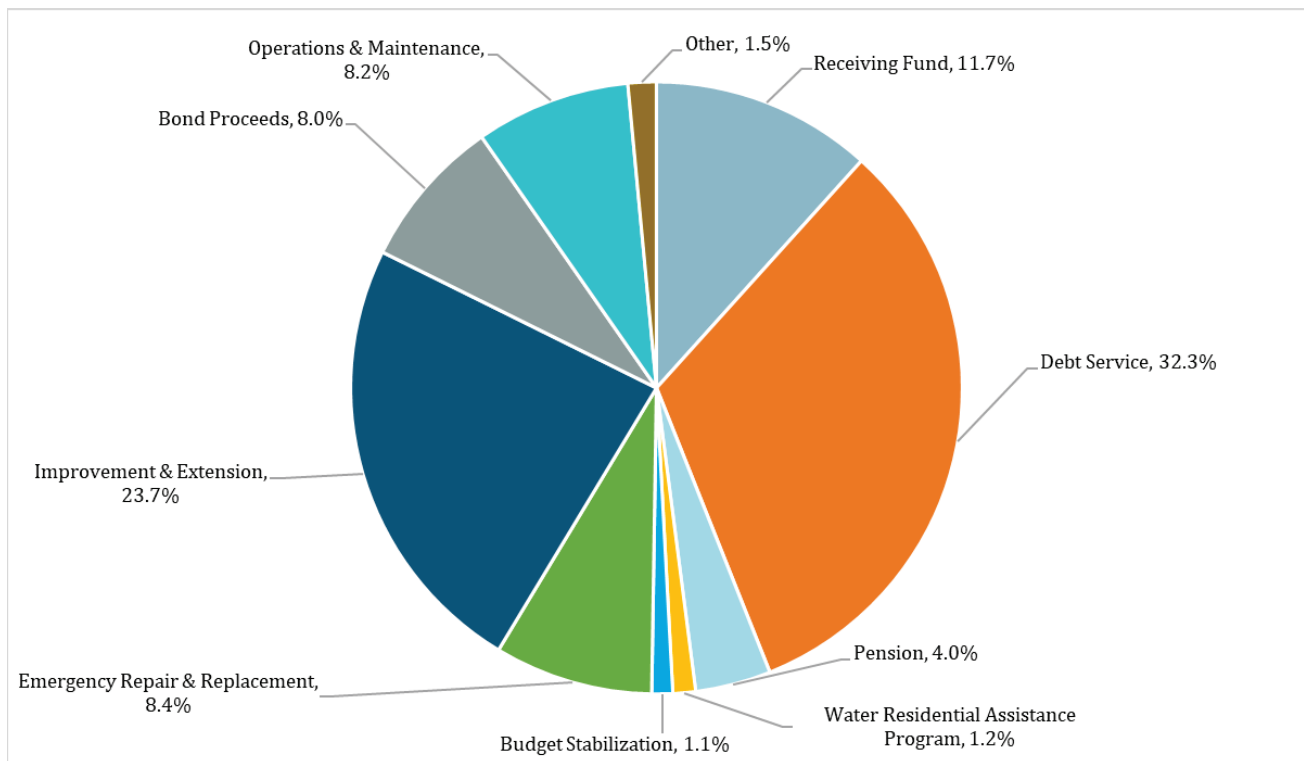


Note: Due to rounding totals may not equal 100%.

Chart 3 – Cash Balances - Sewer Funds as of April 30, 2020 - Shows the allocation of the balance among the different funds defined in the section above. The total cash balance for Sewer Funds as of April 30, 2020 is \$524 million. Like the Water Funds, the allocation of balances among the I&E, bond proceeds, and debt service reserve funds reflects GLWA's commitment to funding capital improvements and meeting debt reserve requirements while simultaneously increasing I&E resources to fund pay-as-you-go capital funding to reduce long-term debt in the future.

The pace for Sewer Funds I&E deposits has been less than budget to address a budget shortfall over multiple years by DWSD. Beginning in February 2019, DWSD began making payments which will replenish the I&E Fund.

Chart 3 – Cash Balances - Sewer Funds as of April 30, 2020



Note: Due to rounding totals may not equal 100%.



Retail Revenues, Receivables, and Collections: Pursuant to the terms of the lease agreement between the City of Detroit and the Great Lakes Water Authority (GLWA), the Detroit Water & Sewerage Department (DWSD) serves as GLWA's agent for billing activities for the City of Detroit retail customer class. All water and sewer service collections from DWSD customers are deposited in a trust account and are administered in accordance with the GLWA Master Bond Ordinance.

The Monthly Retail Revenues, Receivables, & Collections Report includes the following.

1. DWSD Retail Water Revenue Billings and Collections
2. DWSD Retail Sewer Revenue Billings and Collections
3. DWSD Retail Water & Sewer System Accounts Receivable Aging Report

Note: *Wholesale customer revenues are billed by the Great Lakes Water Authority.*

DWSD Retail Water Billings and Collections

Retail Billing Basis: DWSD bills retail customers monthly. Customers are billed throughout the month in cycles based on a meter reading schedule beginning with residential accounts and ending with commercial and industrial customers.

Table 1 - DWSD Retail Billings shows the FY 2020 water usage and billed revenue which are provided by DWSD staff. As of April 30, 2020, the DWSD usage was at 91.16% of the budget and billed revenue was at 97.15% of budget.

DWSD Retail Water Collections: The collections represent payments made by DWSD retail customers. These receipts are deposited directly into a lockbox with a trustee for administration of the flow of funds defined by GLWA's Master Bond Ordinance.

Table 2 - Retail Water Collections shows collections by month for the past 12 months compared to collections for the prior year as well as the calculated difference between the periods. Receipts for April 2020 are low as anticipated due to the impacts of the COVID-19 pandemic.

Table 1 – FY 2020 DWSD Retail Water Billings Report

RETAIL WATER CUSTOMERS								
Month (1)	FY 2020 - Budget/Goal			FY 2020 - Actual			FY 2020 - Variance	
	Volume	Revenue	Unit Revenue	Volume	Revenue (2)	Unit Revenue	Volume	Revenue
	Mcf	\$	\$/Mcf	Mcf	\$	\$/Mcf	Mcf	\$
July	286,871	9,909,302	34.54	267,054	9,802,572	36.71	(19,817)	(106,730)
August	288,810	9,698,584	33.58	259,489	9,601,097	37.00	(29,321)	(97,487)
September	246,846	9,159,992	37.11	228,961	8,811,834	38.49	(17,885)	(348,158)
October	228,814	8,288,490	36.22	217,031	8,578,738	39.53	(11,783)	290,248
November	218,154	8,078,402	37.03	200,432	7,879,694	39.31	(17,722)	(198,708)
December	216,372	7,975,070	36.86	201,225	7,811,106	38.82	(15,147)	(163,964)
January	228,259	8,282,968	36.29	205,993	7,981,382	38.75	(22,266)	(301,586)
February	225,150	8,294,177	36.84	196,490	7,748,377	39.43	(28,660)	(545,800)
March	222,601	8,159,386	36.65	198,483	7,755,210	39.07	(24,118)	(404,176)
April	215,049	8,120,879	37.76	191,691	7,550,074	39.39	(23,358)	(570,805)
May	230,957	8,499,721	36.80					
June	254,554	9,084,129	35.69					
Total	2,862,437	103,551,100	36.18	2,166,849	83,520,084	38.54	(210,077)	(2,447,166)
Subtotals ytd	2,376,926	85,967,250	36.17	2,166,849	83,520,084	38.54	(210,077)	(2,447,166)
Achievement of Budget				91.16%	97.15%			

(1) Figures are stated as "Service Months"; that is, July figures represent bills issued in August, etc.

(2) Retail Revenues include Miscellaneous Revenues and Penalties

Table 2 – DWSD Retail Water Collections

Water				
Month	Current Year	Prior Year	Variance	Ratio
May	8,415,767	8,969,019	(553,252)	-6.17%
June	7,554,457	7,940,939	(386,482)	-4.87%
July	8,093,394	7,858,272	235,122	2.99%
August	8,671,848	8,692,784	(20,936)	-0.24%
September	8,610,801	9,766,449	(1,155,648)	-11.83%
October	9,619,977	9,015,400	604,577	6.71%
November	7,067,667	7,938,517	(870,850)	-10.97%
December	8,597,558	7,297,698	1,299,860	17.81%
January	9,076,091	8,158,817	917,274	11.24%
February	8,281,985	7,927,299	354,686	4.47%
March	6,948,308	8,707,578	(1,759,270)	-20.20%
April	5,956,105	8,475,657	(2,519,552)	-29.73%
Rolling, 12-Month Total	96,893,958	100,748,429		
Rolling, 12-Month Average	8,074,497	8,395,702		

DWSD Retail Sewer Billings and Collections

Retail billing basis: DWSD bills retail customers monthly. Customers are billed throughout the month in cycles based on a meter reading schedule beginning with residential accounts and ending with commercial and industrial customers.

Table 3 - DWSD Retail Sewer Billings shows the FY 2020 sewer billed revenue which are provided by DWSD staff. As of April 30, 2020, the DWSD usage was at 93.50% of the budget and billed revenue was at 96.86% of budget.

DWSD Retail Sewer Collections: The collections represent payments made by DWSD retail customers. These receipts are deposited directly into a lockbox with a trustee for administration of the flow of funds defined by GLWA's Master Bond Ordinance.

Table 4 - DWSD Retail Sewer Collections shows collections by month for the past 12 months compared to collections for the prior year as well as the calculated difference between the periods. Receipts for April 2020 are low as anticipated due to the impacts of the COVID-19 pandemic although the twelve-month rolling average remains strong.

Table 3 - FY 2020 DWSD Retail Sewer Billings Report

RETAIL SEWER CUSTOMERS						
Month (1)	FY 2020 - Budget/Goal		FY 2020 - Actual		FY 2020 - Variance	
	Volume	Revenue	Volume	Revenue (2)	Volume	Revenue
	Mcf	\$	Mcf	\$	Mcf	\$
July	251,738	28,535,420	244,810	28,049,707	(6,928)	(485,713)
August	258,984	28,327,270	246,989	28,076,649	(11,995)	(250,621)
September	255,527	26,788,442	215,119	26,430,710	(40,408)	(357,732)
October	227,141	26,444,548	238,202	27,549,787	11,061	1,105,239
November	211,617	25,759,684	188,779	24,726,161	(22,838)	(1,033,523)
December	195,192	25,905,017	186,917	24,853,335	(8,275)	(1,051,682)
January	197,099	26,341,264	190,230	24,857,510	(6,869)	(1,483,754)
February	206,164	26,312,394	187,219	24,524,288	(18,945)	(1,788,106)
March	200,672	26,467,728	186,521	24,784,918	(14,151)	(1,682,810)
April	204,606	25,894,612	180,397	24,538,664	(24,209)	(1,355,948)
May	203,480	27,185,600				
June	218,340	27,376,921				
Total	2,630,560	321,338,900	2,065,183	258,391,729	(143,557)	(8,384,650)
Subtotals ytd	2,208,740	266,776,379	2,065,183	258,391,729	(143,557)	(8,384,650)
Achievement of Budget/Goal			93.50%	96.86%		

(1) Figures are stated as "Service Months"; that is, July figures represent bills issued in August, etc.

(2) Retail Revenues include Miscellaneous Revenues and Penalties

Table 4 – DWSD Retail Sewer Collections

Sewer				
Month	Current Year	Prior Year	Variance	Ratio
May	22,807,283	18,341,298	4,465,985	24.35%
June	20,426,151	21,461,926	(1,035,775)	-4.83%
July	20,940,157	27,332,605	(6,392,448)	-23.39%
August	23,175,643	21,746,714	1,428,929	6.57%
September	21,972,754	23,727,505	(1,754,751)	-7.40%
October	26,321,010	23,938,933	2,382,077	9.95%
November	17,546,180	20,624,039	(3,077,859)	-14.92%
December	25,889,823	19,612,154	6,277,669	32.01%
January	23,512,702	19,612,154	3,900,548	19.89%
February	22,682,982	20,624,039	2,058,943	9.98%
March	19,325,377	22,111,691	(2,786,314)	-12.60%
April	17,105,146	20,930,511	(3,825,365)	-18.28%
Rolling 12-Month Total	261,705,208	260,063,569		
Rolling, 12-Month Average	21,808,767	21,671,964		

DWSD Retail Water and Sewer Accounts Receivable Aging Report

The DWSD detailed accounts receivable aging is categorized by customer category.

Table 5 is a summary of the total, current and non-current Water and Sewer receivables by category as of April 30, 2020 with comparative totals from April 30, 2019.

Table 5 – DWSD Retail Accounts Receivable Aging Report – Water & Sewer Combined

Sales Class	# of Accounts	Avg. Balance	Current	> 30 Days	> 60 Days	> 180 Days	Balance
Residential	204,480	\$ 440.89	\$ 13,001,000	\$ 6,601,000	\$ 16,347,000	\$ 54,204,000	\$ 90,153,000
			14.4%	7.3%	18.1%	60.1%	100.0%
Commercial	20,669	1,625.08	7,116,000	3,349,000	5,358,000	17,766,000	33,589,000
			21.2%	10.0%	16.0%	52.9%	100.0%
Industrial	2,146	5,634.66	4,198,000	525,000	1,595,000	5,774,000	12,092,000
			34.7%	4.3%	13.2%	47.8%	100.0%
Tax Exempt	3,443	859.64	476,000	206,000	433,000	1,845,000	2,960,000
			16.1%	7.0%	14.6%	62.4%	100.0%
Government	65,458	364.57	3,306,000	2,717,000	5,176,000	12,665,000	23,864,000
			13.9%	11.4%	21.7%	53.1%	100.0%
Drainage	34,063	799.25	1,986,000	1,477,000	4,243,000	19,519,000	27,225,000
			7.3%	5.4%	15.6%	71.7%	100.0%
Subtotal - Active Accounts	330,259	\$ 574.95	\$ 30,083,000	\$ 14,875,000	\$ 33,151,000	\$ 111,773,000	\$ 189,882,000
			15.8%	7.8%	17.5%	58.9%	100.0%
Inactive Accounts	282,487	100.80	77,000	113,000	1,119,000	27,166,000	28,474,000
			0.3%	0.4%	3.9%	95.4%	100.0%
Total	612,746	\$ 356.36	\$ 30,159,000	\$ 14,987,000	\$ 34,270,000	\$ 138,940,000	\$ 218,356,000
% of Total A/R			13.8%	6.9%	15.7%	63.6%	100.0%
Water Fund	232,238	181.58	\$ 6,653,000	\$ 3,169,000	\$ 5,982,000	\$ 26,366,000	\$ 42,169,000
Sewer Fund	286,453	615.06	\$ 23,507,000	\$ 11,818,000	\$ 28,288,000	\$ 112,574,000	\$ 176,187,000
Total April 30, 2020 (a)	612,746	356.36	\$ 30,159,000	\$ 14,987,000	\$ 34,270,000	\$ 138,940,000	\$ 218,356,000
Water Fund- Allowance							\$ (31,758,000)
Sewer Fund- Allowance							\$ (108,372,000)
Total April 30, 2019 Bad Debt Allowance							\$ (140,130,000)
Comparative - April 2019 (b)	592,111	312.14	\$ 26,969,000	\$ 13,485,000	\$ 31,384,000	\$ 112,985,000	\$ 184,822,000
Difference (a) - (b)	20,635	44.21	\$ 3,190,000	\$ 1,503,000	\$ 2,886,000	\$ 25,955,000	\$ 33,534,000



The Monthly Wholesale Billings, Receivables, & Collections Report includes the following.

1. Wholesale Water Billings and Collections
2. Wholesale Sewer Billings and Collections
3. City of Highland Park Billings and Collections
4. Wholesale Water & Sewer Accounts Receivable Aging Report

Wholesale Water Billings and Collections

Wholesale Water Contracts: Great Lakes Water Authority (GLWA) provides wholesale water service to 87 member-partners through a variety of service arrangements.

Service Arrangement Type

Model Contract	82
Emergency	1
Older Contracts	4
Total	<u>87</u>

Note: Services are provided to the Detroit Water & Sewerage Department (DWSD) via a Water and Sewer Services Agreement (WSSA). See the “Retail Revenues, Receivables, and Collections Report” section of this monthly report.

Wholesale Water Billing Basis: Beginning with FY 2016, wholesale water charges were restructured to create a more stable revenue stream by using a historical rolling average to project customer volumes which accounts for 40% of the monthly charges and 60% of the annual customer revenue requirement as a monthly fixed charge.

Table 1 - Wholesale Water Billings shows the FY 2020 water billed usage and revenues. As of April 30, 2020, the billed usage was at 94.81% of budget and billed revenue at 98.01% of budget. Billings and usage from the City of Flint are included as they were assumed in the FY 2020 Budget.

Wholesale Water Collections: The collections represent payments made by wholesale customers. These receipts are deposited directly into a lockbox with a trustee for administration of the flow of funds defined by GLWA’s Master Bond Ordinance.

Table 2 - Wholesale Water Collections shows collections by month for the past 12 months compared to collections for the prior year as well as the calculated difference between the periods. The difference in rolling average from current year to prior year reflects the gentle downward trend in water usage over time as well as a temporary delay in receipts due to COVID-19 stay at home restrictions and the impact on member partner office hours.

Table 1 –FY 2020 Wholesale Water Billings Report

WHOLESALE WATER CUSTOMERS								
Month (1)	FY 2020 - Budget/Goal			FY 2020 - Actual			FY 2020 - Variance	
	Volume	Revenue	Unit	Volume	Revenue	Unit	Volume	Revenue
	Mcf	\$	\$/Mcf	Mcf	\$	\$/Mcf	Mcf	\$
July	1,777,138	32,544,400	18.31	1,545,631	30,356,570	19.64	(231,507)	(2,187,830)
August	1,549,587	30,383,100	19.61	1,554,426	30,501,606	19.62	4,839	118,506
September	1,368,496	28,270,400	20.66	1,257,111	27,278,750	21.70	(111,385)	(991,650)
October	1,066,653	25,351,200	23.77	1,026,086	25,007,145	24.37	(40,567)	(344,055)
November	917,034	24,049,100	26.22	905,016	23,933,012	26.44	(12,018)	(116,088)
December	1,004,420	24,714,000	24.61	983,589	24,535,948	24.95	(20,831)	(178,052)
January	1,018,192	24,861,000	24.42	945,874	24,246,312	25.63	(72,318)	(614,688)
February	893,007	23,780,800	26.63	878,794	23,689,167	26.96	(14,213)	(91,633)
March	1,008,766	24,753,300	24.54	971,559	24,450,282	25.17	(37,207)	(303,018)
April	948,751	24,262,000	25.57	884,232	23,725,074	26.83	(64,519)	(536,926)
May	1,073,966	25,549,300	23.79					
June	1,383,200	28,595,300	20.67					
Total	14,009,210	317,113,900	22.64	10,952,318	257,723,866	23.53	(599,726)	(5,245,434)
Subtotals ytd	11,552,044	262,969,300	22.76	10,952,318	257,723,866	23.53	(599,726)	(5,245,434)
Achievement of Budget				94.81%	98.01%			

(1) Figures are stated as "Service Months"; that is, July figures represent bills issued in August, etc.

Table 2 - Wholesale Water Collections

Water				
Month	Current Year	Prior Year	Variance	Ratio
May	20,749,943	30,447,581	(9,697,638)	-31.85%
June	25,676,458	21,815,013	3,861,445	17.70%
July	23,212,979	21,923,590	1,289,389	5.88%
August	28,808,254	31,920,586	(3,112,332)	-9.75%
September	28,336,152	26,037,313	2,298,839	8.83%
October	25,786,774	27,827,722	(2,040,948)	-7.33%
November	29,245,969	29,238,260	7,709	0.03%
December	23,292,382	27,720,646	(4,428,264)	-15.97%
January	25,470,795	23,430,974	2,039,821	8.71%
February	24,629,768	26,147,082	(1,517,314)	-5.80%
March	25,017,989	24,967,264	50,725	0.20%
April	17,856,644	23,045,654	(5,189,010)	-22.52%
Rolling 12-Month Total	298,084,107	314,521,685		
Rolling, 12-Month Average	24,840,342	26,210,140		

Wholesale Sewer Billings and Collections

Wholesale Sewer Contracts: GLWA provides wholesale sewer service to 18 member-partners via multiple service arrangements.

Service Arrangement Type

Model Contract	11
Emergency	0
Older Contracts	7
Total	<u>18</u>

Note: Services are provided to the Detroit Water & Sewerage Department via a Water and Sewer Services Agreement (WSSA). See the “Retail Revenues, Receivables, and Collections Report” section of the monthly report.

Wholesale Sewer Billing Basis: Beginning in FY 2015, the “sewer rate simplification” initiative was applied which provides for a stable revenue stream and predictability for our member partners. Wholesale sewer customers are billed a fixed monthly fee based upon the annual revenue requirement.

Table 3 - Wholesale Sewer Billings shows the FY 2020 sewer billed revenues. As of April 30, 2020, the billed revenue is at 100% of budget.

Wholesale Sewer Collections: The collections represent payments made by wholesale customers. These receipts are deposited directly into a lockbox with a trustee for administration of the flow of funds defined by GLWA’s Master Bond Ordinance.

Table 4 - Wholesale Sewer Collections shows collections by month for the past 12 months compared to collections for the prior year as well as the calculated difference between the periods. The year-over-year rolling average from FY 2019 to FY 2020 remains consistent.

The shift in wholesale sewer collection patterns is largely attributable to the timing of payments received. There are several large accounts whose payments swing between the end of the current month and the beginning of the next month. April receipt activity also reflects a temporary delay in receipts due to COVID-19 stay at home restrictions and the impact on member partner office hours.

Table 3 – FY 2020 Wholesale Sewer Billings Report

WHOLESALE SEWER CUSTOMERS						
Month (1)	FY 2020 - Budget/Goal		FY 2020 - Actual		FY 2020 - Variance	
	Volume (2)	Revenue	Volume (2)	Revenue	Volume (2)	Revenue
	Mcf	\$	Mcf	\$	Mcf	\$
July	N/A	22,323,183	N/A	22,323,183	N/A	-
August	N/A	22,323,183	N/A	22,323,183	N/A	-
September	N/A	22,323,183	N/A	22,323,183	N/A	-
October	N/A	22,323,183	N/A	22,323,183	N/A	-
November	N/A	22,323,183	N/A	22,323,183	N/A	-
December	N/A	22,323,183	N/A	22,323,183	N/A	-
January	N/A	22,323,183	N/A	22,323,183	N/A	-
February	N/A	22,323,183	N/A	22,323,183	N/A	-
March	N/A	22,323,183	N/A	22,323,183	N/A	-
April	N/A	22,323,183	N/A	22,323,183	N/A	-
May	N/A	22,323,183	N/A		N/A	
June	N/A	22,323,183	N/A		N/A	
Total		267,878,196		223,231,830		-
Subtotals ytd		223,231,830		223,231,830		-
Achievement of Budget				100.00%		

(1) Figures are stated as "Service Months"; that is, July figures represent bills issued in August, etc.

(2) Not tracked as part of the wholesale sewer charges.

Table 4 - Wholesale Sewer Collections

Sewer				
Month	Current Year	Prior Year	Variance	Ratio
May	9,284,000	15,342,700	(6,058,700)	-39.49%
June	32,639,436	28,810,500	3,828,936	13.29%
July	27,222,400	16,179,117	11,043,283	68.26%
August	35,153,500	28,384,600	6,768,900	23.85%
September	18,833,257	22,672,400	(3,839,143)	-16.93%
October	29,833,760	16,105,200	13,728,560	85.24%
November	19,428,000	28,633,300	(9,205,300)	-32.15%
December	19,999,642	24,440,000	(4,440,358)	-18.17%
January	17,121,812	26,874,927	(9,753,115)	-36.29%
February	23,284,737	13,895,100	9,389,637	67.58%
March	21,108,100	22,388,600	(1,280,500)	-5.72%
April	10,024,575	23,203,703	(13,179,128)	-56.80%
Rolling 12-Month Total	263,933,219	266,930,147		
Rolling, 12-Month Average	21,994,435	22,244,179		

City of Highland Park Billings and Collections

The City of Highland Park is provided water service pursuant to an emergency service basis. Sewer service is provided pursuant to a 1982 amended contract which indicates that the parties are guided in their legal relationship by a Michigan Supreme Court decision from 1949.

As of April 30, 2020, Highland Park had a delinquent balance of \$44.0 million, including \$34.0 million for wastewater treatment services, \$1.7 million for industrial waste control services, and \$8.3 million for water supply services.

Table 5 - City of Highland Park Billings and Collections provides a life-to-date balance summary of the billing and collection history for Highland Park with detail provided for fiscal year 2020 through April 30, 2020. Please note the numbers below reflect the month the billing was sent and not the month the service was provided. A life-to-date summary is provided as an appendix to this monthly financial report.

Table 5 - City of Highland Park Billings and Collections

	Water	Sewer	IWC	Total
May 31, 2019 Balance	7,249,174	32,411,780	1,671,312	41,332,267
June 2019 Billing	101,871	467,900	3,931	573,702
June 2019 Payments	-	(1,406,836)	-	(1,406,836)
June 30, 2019 Balance	7,351,045	31,472,844	1,675,243	40,499,132
July 2019 Billing	104,702	467,900	4,121	576,722
July 2019 Payments	-	-	-	-
July 31, 2019 Balance	7,455,746	31,940,744	1,679,363	41,075,854
August 2019 Billing	106,638	472,500	4,026	583,164
August 2019 Payments	-	-	-	-
August 31, 2019 Balance	7,562,384	32,413,244	1,683,389	41,659,018
September 2019 Billing	108,007	472,500	4,014	584,521
September 2019 Payments	-	(656,657)	-	(656,657)
September 30, 2019 Balance	7,670,391	32,229,087	1,687,403	41,586,882
October 2019 Billing	107,422	472,500	3,933	583,855
October 2019 Payments	-	-	-	-
October 31, 2019 Balance	7,777,814	32,701,587	1,691,336	42,170,737
November 2019 Billing	101,003	472,500	3,948	577,451
November 2019 Payments	-	-	-	-
November 30, 2019 Balance	7,878,817	33,174,087	1,695,284	42,748,188
December 2019 Billing	98,501	472,500	3,845	574,846
December 2019 Payments	-	-	-	-
December 31, 2019 Balance	7,977,318	33,646,587	1,699,129	43,323,034
January 2020 Billing	85,342	472,500	3,853	561,695
January 2020 Payments	-	(1,561,812)	-	(1,561,812)
January 31, 2020 Balance	8,062,660	32,557,275	1,702,982	42,322,917
February 2020 Billing	93,589	472,500	3,892	569,981
February 2020 Payments	-	-	-	-
February 28, 2020 Balance	8,156,249	33,029,775	1,706,874	42,892,898
March 2020 Billing	92,950	472,500	3,906	569,356
March 2020 Payments	-	-	-	-
March 31, 2020 Balance	8,249,199	33,502,275	1,710,780	43,462,254
April 2020 Billing	94,738	472,500	3,905	571,143
April 2020 Payments	-	-	-	-
April 30, 2020 Balance	8,343,937	33,974,775	1,714,685	44,033,397

Wholesale Water & Sewer Accounts Receivable Aging Report

The detailed accounts receivable aging is in the Appendix to this monthly report. This report reflects the wholesale receivables only and does not include DWSD.

Table 6 - Wholesale Accounts Receivable Aging Report Summary is a summary of the total, current and non-current receivables by category as of April 30, 2020. The sewer past due balance of \$4.5 million relates to a Rouge Valley invoice that was paid on May 15.

Table 7 - Wholesale Accounts Receivable Aging Report, Net of Highland Park is the same summary *without* the past due balances for the City of Highland Park.

Table 8 - Wholesale Accounts Receivable Aging Report, Net of Highland Park and WTUA is a summary *without* the past due balances for the City of Highland Park and net of pending credits for certain Western Township Utilities Authority (WTUA). GLWA received a final agreement from Wayne County in late February to effectuate a transfer retroactive to July 1, 2018 and is working to process credits as required by the end of June 2020.

Table 6 - Wholesale Accounts Receivable Aging Report Summary

	Total	Current	46-74 Days	75-104 Days	>105 Days
Water	\$ 42,938,620.95	\$ 34,782,303.97	\$ 93,657.09	\$ 93,039.60	\$ 7,969,620.29
Sewer	\$ 58,476,496.52	\$ 20,456,414.12	\$ 4,990,308.16	\$ 472,500.00	\$ 32,557,274.24
IWC	\$ 3,637,813.69	\$ 559,385.21	\$ 34,336.81	\$ 38,432.29	\$ 3,005,659.38
Pollutant Surcharge	\$ 994,231.75	\$ 849,498.91	\$ 33,191.19	\$ 24,849.87	\$ 86,691.78
Total	\$ 106,047,162.91	\$ 56,647,602.21	\$ 5,151,493.25	\$ 628,821.76	\$ 43,619,245.69
	100.00%	53.42%	4.86%	0.59%	41.13%

Table 7 - Wholesale Accounts Receivable Aging Report, Net of Highland Park

	Total	Current	46-74 Days	75-104 Days	>105 Days
Water	\$ 34,594,683.94	\$ 34,594,615.77	\$ 68.17	\$ -	\$ -
Sewer	\$ 24,501,722.28	\$ 19,983,914.12	\$ 4,517,808.16	\$ -	\$ -
IWC	\$ 1,923,128.99	\$ 551,574.03	\$ 30,444.74	\$ 34,579.09	\$ 1,306,531.13
Pollutant Surcharge	\$ 994,231.75	\$ 849,498.91	\$ 33,191.19	\$ 24,849.87	\$ 86,691.78
Total	\$ 62,013,766.96	\$ 55,979,602.83	\$ 4,581,512.26	\$ 59,428.96	\$ 1,393,222.91
	100.00%	90.27%	7.39%	0.10%	2.25%

Table 8 - Wholesale Accounts Receivable Aging Report, Net of Highland Park and WTUA

	Total	Current	46-74 Days	75-104 Days	>105 Days
Water	\$ 34,594,683.94	\$ 34,594,615.77	\$ 68.17	\$ -	\$ -
Sewer	\$ 24,501,722.28	\$ 19,983,914.12	\$ 4,517,808.16	\$ -	\$ -
IWC	\$ 512,860.59	\$ 516,994.94	\$ (4,134.35)	\$ -	\$ -
Pollutant Surcharge	\$ 994,231.75	\$ 849,498.91	\$ 33,191.19	\$ 24,849.87	\$ 86,691.78
Total	\$ 60,603,498.56	\$ 55,945,023.74	\$ 4,546,933.17	\$ 24,849.87	\$ 86,691.78
	100.00%	92.31%	7.50%	0.04%	0.14%

Note: percentages vary from 100% due to rounding.



The Monthly Trust Receipts & Disbursements Report includes the following.

1. GLWA Trust Receipts & Disbursements – Net Cash Flows and Receipts
2. DWSD Trust Receipts & Disbursements – Net Cash Flows, Receipts & Loan Receivable
3. Combined System Trust Receipts & Disbursements – Net Cash Flows

GLWA Trust Receipts & Disbursements

Net Cash Flows and Receipts Basis: The trusts established pursuant to the Master Bond Ordinance (MBO) outline a flow of funds that governs the priority of the application of cash receipts from both the regional wholesale (i.e. Great Lakes Water Authority or GLWA) and local retail (i.e. Detroit Water & Sewerage Department or DWSD) activities which are further separated by the water system and the sewage disposal system.

This report provides an ongoing status of the net cash flow of both organizations (GLWA and DWSD) to fund their allocated share of Master Bond Ordinance requirements in accordance with the leases for the regional systems.

Table 1 – GLWA Net Cash Flows from Trust Receipts & Disbursements provides a summary of cash receipt collections and required MBO transfers by fiscal year as well as a total of all activity for GLWA since inception at January 1, 2016. Fiscal year 2020 reflects ten months of activity to date.

Water fund activity exceeded required MBO disbursements by 10% through April 30, 2020 with a historical ratio of cash receipts exceeding MBO disbursements by 14% since January 1, 2016.

Sewer fund cash receipts exceeded disbursements by 8% through April 30, 2020 with a historical ratio of cash receipts exceeding MBO disbursements by 5% since January 1, 2016. FY 2020 activity is high due in part to a one-time capital contribution of \$11.9 million by the Oakland Macomb Interceptor Drainage District in December 2019 as part of a recent contract amendment.

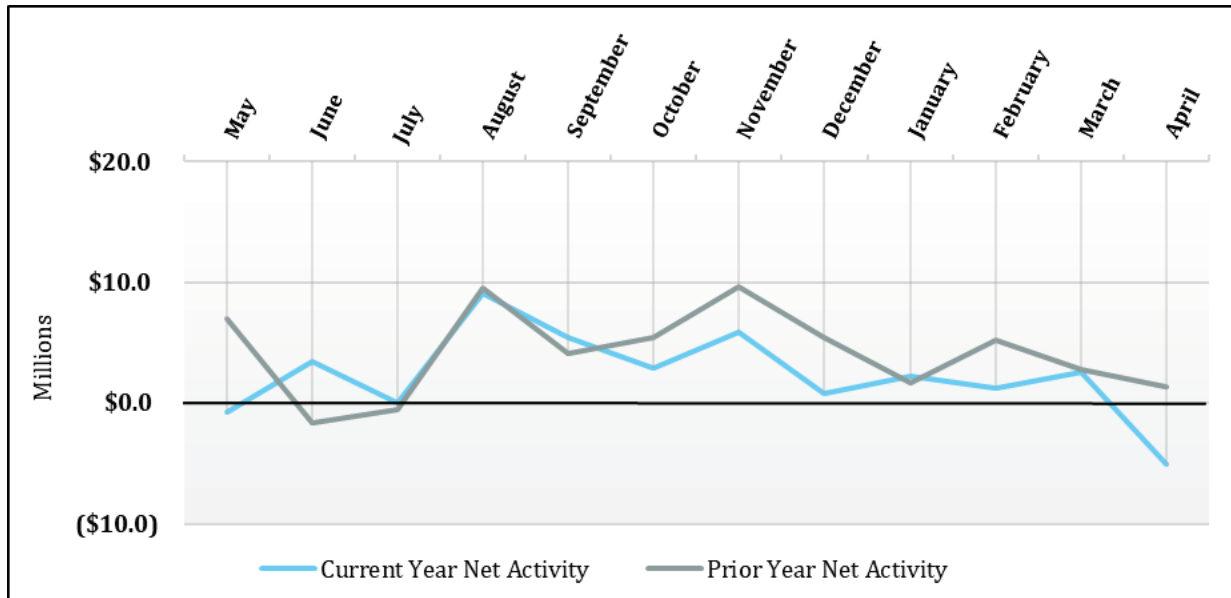
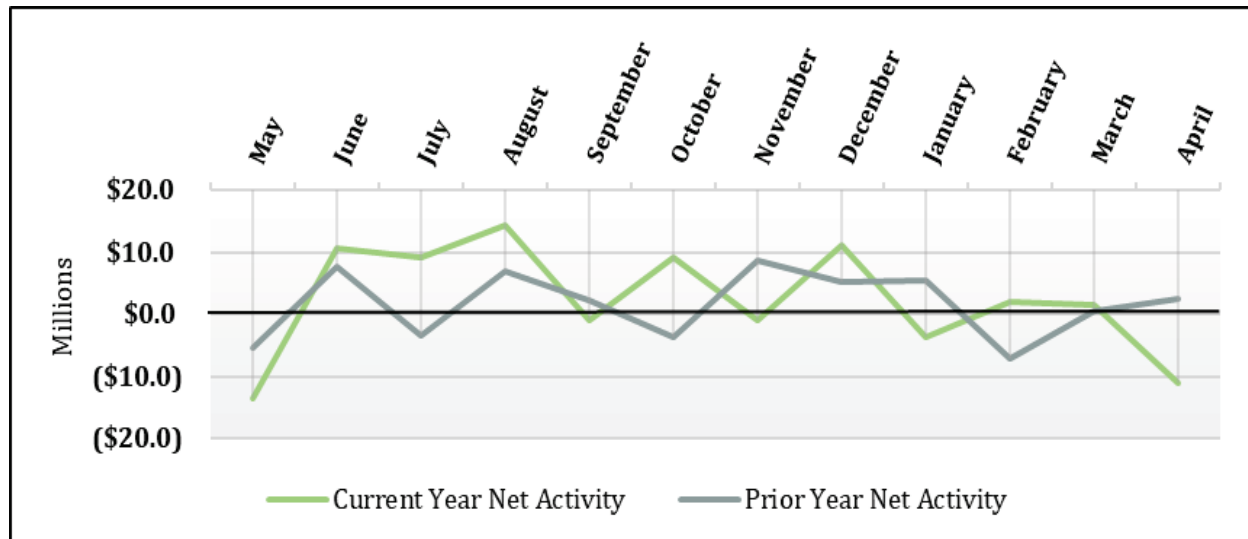
Chart 1 – GLWA 12-Month Net Receipts – Water outlines monthly cash receipt trends across two points of reference for the regional water system—current year and prior year. The black line at the zero highlights the minimum goal for net receipts. Receipts for April 2020 are low as anticipated due to the impacts of the COVID-19 pandemic.

Chart 2 – GLWA 12-Month Net Receipts – Sewer outlines monthly cash receipt trends across two points of reference for the regional sewer system—current year and prior year. The black line at the zero highlights the minimum goal for net receipts. Receipts for April 2020 are low as anticipated due to the impacts of the COVID-19 pandemic.

Table 1 – GLWA Net Cash Flows from Trust Receipts & Disbursements

	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020 Thru April 30	Life-to-Date Total
Water						
1 Receipts	\$ 149,688,711	\$ 352,941,909	\$ 338,452,001	\$ 336,594,234	\$ 275,967,675	\$1,453,644,530
2 MOU Adjustments	-	-	-	-	-	-
3 Adjusted Receipts	149,688,711	352,941,909	338,452,001	336,594,234	275,967,675	1,453,644,530
4 Disbursements	(146,256,185)	(288,777,985)	(297,064,810)	(289,230,481)	(250,876,444)	(1,272,205,905)
5 Receipts Net of Required Transfers	3,432,526	64,163,924	41,387,191	47,363,753	25,091,231	181,438,625
6 I&E Transfer	-	-	(25,739,700)	(47,695,000)	(22,593,751)	(96,028,451)
7 Net Receipts	\$ 3,432,526	\$ 64,163,924	\$ 15,647,491	\$ (331,247)	\$ 2,497,480	\$ 85,410,174
8 Ratio of Receipts to Required Disbursements (Line 3/Line 4)	102%	122%	114%	116%	110%	114%
Sewer						
9 Receipts	\$ 232,377,715	\$ 469,788,882	\$ 476,269,761	\$ 467,743,744	\$ 406,285,367	\$2,052,465,469
10 MOU Adjustments	-	-	-	-	-	-
11 Adjusted Receipts	232,377,715	469,788,882	476,269,761	467,743,744	406,285,367	2,052,465,469
12 Disbursements	(219,538,325)	(441,443,340)	(458,903,335)	(453,406,636)	(375,810,279)	(1,949,101,915)
13 Receipts Net of Required Transfers	12,839,390	28,345,542	17,366,426	14,337,108	30,475,088	103,363,554
14 I&E Transfer	-	-	(22,698,100)	(22,547,700)	(19,096,200)	(64,342,000)
15 DWSD Shortfall Advance	(1,285,466)	(28,014,534)	(24,113,034)	-	-	(53,413,034)
16 Shortfall Repayment (principal)	-	-	-	9,367,355	14,573,471	23,940,826
17 Net Receipts	\$ 11,553,924	\$ 331,008	\$ (29,444,708)	\$ 1,156,763	\$ 25,952,359	\$ 9,549,346
18 Ratio of Receipts to Required Disbursements (Line 11/Line 12)	106%	106%	104%	103%	108%	105%
Combined						
19 Receipts	\$ 382,066,426	\$ 822,730,791	\$ 814,721,762	\$ 804,337,978	\$ 682,253,042	\$3,506,109,999
20 MOU Adjustments	-	-	-	-	-	-
21 Adjusted Receipts	382,066,426	822,730,791	814,721,762	804,337,978	682,253,042	3,506,109,999
22 Disbursements	(365,794,510)	(730,221,325)	(755,968,145)	(742,637,117)	(626,686,723)	(3,221,307,820)
23 Receipts Net of Required Transfers	16,271,916	92,509,466	58,753,617	61,700,861	55,566,319	284,802,179
24 I&E Transfer	-	-	(48,437,800)	(70,242,700)	(41,689,951)	(160,370,451)
25 Shortfall Advance	(1,285,466)	(28,014,534)	(24,113,034)	-	-	(53,413,034)
26 Shortfall Repayment	-	-	-	9,367,355	14,573,471	23,940,826
27 Net Receipts	\$ 14,986,450	\$ 64,494,932	\$ (13,797,217)	\$ 825,516	\$ 28,449,839	\$ 94,959,520
28 Ratio of Receipts to Required Disbursements (Line 21/Line 22)	104%	113%	108%	108%	109%	109%

MOU Adjustments applies to DWSD and is shown here for consistency.

Chart 1 – GLWA 12-Month Net Receipts - Water

Chart 2 – GLWA 12-Month Net Receipts – Sewer


DWSD Trust Receipts & Disbursements

Net Cash Flows and Receipts Basis: The trusts established pursuant to the Master Bond Ordinance (MBO) outline a flow of funds that governs the priority of the application of cash receipts from both the regional wholesale (i.e. Great Lakes Water Authority or GLWA) and local retail (i.e. Detroit Water & Sewerage Department or DWSD) activities which are further separated by the water system and the sewage disposal system.

This report provides an ongoing status of the net cash flow of both organizations (GLWA and DWSD) to fund their allocated share of Master Bond Ordinance requirements in accordance with the leases for the regional systems.

Table 2 – DWSD Net Cash Flows from Trust Receipts & Disbursements provides a summary of cash receipt collections and required MBO transfers by fiscal year as well as a total of all activity for DWSD since inception at January 1, 2016. Fiscal year 2020 reflects ten months of activity to date.

Water fund cash receipts fell short of required MBO disbursements by 1% through April 30, 2020 with a historical ratio of receipts exceeding disbursements by 2% since January 1, 2016.

Sewer fund cash receipts fell short of required MBO disbursements by 5% through April 30, 2020 with a historic shortfall of 6% since January 1, 2016. DWSD has recognized this issue and proactively implemented plans in December 2019 to resolve that mid-year shortfall.

On December 3, DWSD transferred \$2.6 million from Sewer Operations & Maintenance back to the Sewer Receiving Fund, with an additional \$4.5 million cash replenishment transfer to GLWA in February 2020; the DWSD Operations & Maintenance budgeted transfer request has been reduced by \$1 million each month since December 2019 to further offset future cashflow timing issues.

April cash receipts reflected the impact of the COVID-19 pandemic. Looking ahead, May and June receipts show improvement. DWSD and GLWA management are closely monitoring these balances and developing plans to address any yearend shortfall resulting from this unforeseen pandemic.

Table 3 – FY 2017 DWSD Loan Receivable - Sewer provides an activity summary of loan receivable established under the terms of the April 2018 MOU addressing the cash shortfall from FY 2016 and FY 2017.

Table 4 – FY 2017 DWSD Loan Receivable Payments - Sewer provides an activity summary of loan receivable payments to date on the FY 2017 Sewer Loan Receivable including the interest on the loan. This payment is transferred directly to GLWA Sewer Improvement & Extension fund monthly.

The Reconciliation Committee monitors this balance and repayment progress as part of its quarterly meetings.

Table 5 – FY 2018 DWSD Loan Receivable - Sewer provides an activity summary of loan receivable established under the terms of the April 2018 MOU addressing the cash shortfall from FY 2018.

Table 6 – FY 2018 DWSD Loan Receivable Payments - Sewer provides an activity summary of loan receivable payments to date on the FY 2018 Sewer Loan Receivable including the interest on the loan. This payment is transferred directly to GLWA Sewer Improvement & Extension fund monthly.

The Reconciliation Committee monitors this balance and repayment progress as part of its quarterly meetings.

Table 7 – Total DWSD Loan Receivable Balance – Sewer provides a combined summary of the FY 2017 and FY 2018 loan receivable total remaining balance due through the period reported.

Chart 3 – DWSD 12-Month Net Receipts – Water outlines monthly activity trends across two points of reference for the local water system—current year and prior year. The black line at the zero highlights the breakeven goal for net receipts. Receipts for April 2020 are low as anticipated due to the impacts of the COVID-19 pandemic.

Chart 4 – DWSD 12-Month Net Receipts – Sewer outlines monthly activity trends across two points of reference for the local sewer system—current year and prior year. The black line at the zero highlights the breakeven goal for net receipts. Receipts for April 2020 are low as anticipated due to the impacts of the COVID-19 pandemic.

Table 2 – DWSD Net Cash Flows from Trust Receipts & Disbursements

	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020 Thru April 30	Life-to-Date Total
Water						
1 Receipts	\$ 26,201,881	\$ 96,451,105	\$ 101,233,147	\$ 99,868,219	\$ 80,953,156	\$ 404,707,508
2 MOU Adjustments	18,446,100	-	-	-	-	18,446,100
3 Adjusted Receipts	44,647,981	96,451,105	101,233,147	99,868,219	80,953,156	423,153,608
4 Disbursements	(47,809,552)	(93,066,144)	(93,049,457)	(97,694,600)	(82,085,410)	(413,705,163)
5 Receipts Net of Required Transfers	(3,161,571)	3,384,961	8,183,690	2,173,619	(1,132,254)	9,448,445
6 I&E Transfer	-	-	-	(8,407,080)	-	(8,407,080)
7 Net Receipts	\$ (3,161,571)	\$ 3,384,961	\$ 8,183,690	\$ (6,233,461)	\$ (1,132,254)	\$ 1,041,365
8 <i>Ratio of Receipts to Required Disbursements (Line 3/Line 4)</i>	93%	104%	109%	102%	99%	102%
Sewer						
9 Receipts	\$ 65,256,734	\$ 233,723,367	\$ 242,104,791	\$ 265,339,797	\$ 218,490,716	\$1,024,915,405
10 MOU Adjustments	55,755,100	-	-	6,527,200	-	62,282,300
11 Adjusted Receipts	121,011,834	233,723,367	242,104,791	271,866,997	218,490,716	1,087,197,705
12 Disbursements	(122,297,300)	(261,963,973)	(266,217,825)	(271,018,306)	(229,239,235)	(1,150,736,639)
13 Receipts Net of Required Transfers	(1,285,466)	(28,240,606)	(24,113,034)	848,691	(10,748,519)	(63,538,934)
14 I&E Transfer	-	-	-	-	-	-
15 Shortfall Advance from GLWA	1,285,466	28,014,534	24,113,034	-	-	53,413,034
16 Net Receipts (a)	\$ -	\$ (226,072)	\$ -	\$ 848,691	\$ (10,748,519)	\$ (10,125,900)
17 <i>Ratio of Receipts to Required Disbursements (Line 11/Line 12)</i>	99%	89%	91%	100%	95%	94%
Combined						
18 Receipts	\$ 91,458,615	\$ 330,174,472	\$ 343,337,938	\$ 365,208,016	\$ 299,443,872	\$1,429,622,913
19 MOU Adjustments	74,201,200	-	-	6,527,200	-	80,728,400
20 Adjusted Receipts	165,659,815	330,174,472	343,337,938	371,735,216	299,443,872	1,510,351,313
21 Disbursements	(170,106,852)	(355,030,117)	(359,267,282)	(368,712,906)	(311,324,645)	(1,564,441,802)
22 Receipts Net of Required Transfers	(4,447,037)	(24,855,645)	(15,929,344)	3,022,310	(11,880,773)	(54,090,489)
23 I&E Transfer	-	-	-	(8,407,080)	-	(8,407,080)
24 Shortfall Advance from GLWA	1,285,466	28,014,534	24,113,034	-	-	53,413,034
25 Net Receipts	\$ (3,161,571)	\$ 3,158,889	\$ 8,183,690	\$ (5,384,770)	\$ (11,880,773)	\$ (9,084,535)
26 <i>Ratio of Receipts to Required Disbursements (Line 20/Line 21)</i>	97%	93%	96%	101%	96%	97%

(a) The \$226,072 difference in FY 2017 is due to the June IWC payment from DWSD that was not past due at yearend and the \$12,272 rounding difference on the loan receivable.

Note 1: The \$29,300,000 for the DWSD loan receivable balance is calculated as follows.

(1,285,466)	FY 2016 Shortfall
(28,240,606)	FY 2017 Shortfall
(29,526,072)	Subtotal
238,264	June IWC not due until July
(29,287,808)	FY 2017 Shortfall-to-Date

29,300,000 FY 2017 Shortfall-to-Date, Rounded

Table 3 – FY 2017 DWSD Loan Receivable - Sewer

Date	Transaction	Amount	Balance
06/30/19	Record FY 16 and FY 17 Loan Receivable		29,300,000
02/08/19	Loan Receivable Payment (for the months of Jul - Dec)	4,635,462	24,664,538
02/22/19	Loan Receivable Payment (for the months of Jan - Mar)	2,353,768	22,310,770
04/15/19	Loan Receivable Payment (for the month of Apr)	789,990	21,520,780
05/08/19	Loan Receivable Payment (for the month of May)	792,705	20,728,075
06/07/19	Loan Receivable Payment (for the month of June)	795,430	19,932,645
07/05/19	Loan Receivable Payment (for the month of July)	798,164	19,134,480
08/08/19	Loan Receivable Payment (for the month of August)	800,908	18,333,572
09/06/19	Loan Receivable Payment (for the month of September)	803,661	17,529,911
10/02/19	Loan Receivable Payment (for the month of October)	806,424	16,723,487
11/04/19	Loan Receivable Payment (for the month of November)	809,196	15,914,291
12/03/19	Loan Receivable Payment (for the month of December)	811,978	15,102,314
01/06/20	Loan Receivable Payment (for the month of January)	814,769	14,287,545
02/04/20	Loan Receivable Payment (for the month of February)	817,570	13,469,975
03/03/20	Loan Receivable Payment (for the month of March)	820,380	12,649,595
04/15/20	Loan Receivable Payment (for the month of April)	823,200	11,826,395
		17,473,605	11,826,395

Table 4 – FY 2017 DWSD Loan Receivable Payments - Sewer

Date	Transaction	Principal	Interest	Total Paid
02/08/19	Loan Receivable Payment (for the months of Jul - Dec)	4,635,462	564,636	5,200,098
02/22/19	Loan Receivable Payment (for the months of Jan - Mar)	2,353,768	246,280	2,600,049
04/15/19	Loan Receivable Payment (for the month of Apr)	789,990	76,693	866,683
05/08/19	Loan Receivable Payment (for the month of May)	792,705	73,978	866,683
06/07/19	Loan Receivable Payment (for the month of June)	795,430	71,253	866,683
07/05/19	Loan Receivable Payment (for the month of July)	798,164	68,518	866,683
08/08/19	Loan Receivable Payment (for the month of August)	800,908	65,775	866,683
09/06/19	Loan Receivable Payment (for the month of September)	803,661	63,022	866,683
10/02/19	Loan Receivable Payment (for the month of October)	806,424	60,259	866,683
11/04/19	Loan Receivable Payment (for the month of November)	809,196	57,487	866,683
12/03/19	Loan Receivable Payment (for the month of December)	811,978	54,705	866,683
01/06/20	Loan Receivable Payment (for the month of January)	814,769	51,914	866,683
02/04/20	Loan Receivable Payment (for the month of February)	817,570	49,113	866,683
03/03/20	Loan Receivable Payment (for the month of March)	820,380	46,303	866,683
04/15/20	Loan Receivable Payment (for the month of April)	823,200	43,483	866,683
		17,473,605	1,593,420	19,067,025

Table 5 – FY 2018 DWSD Loan Receivable - Sewer

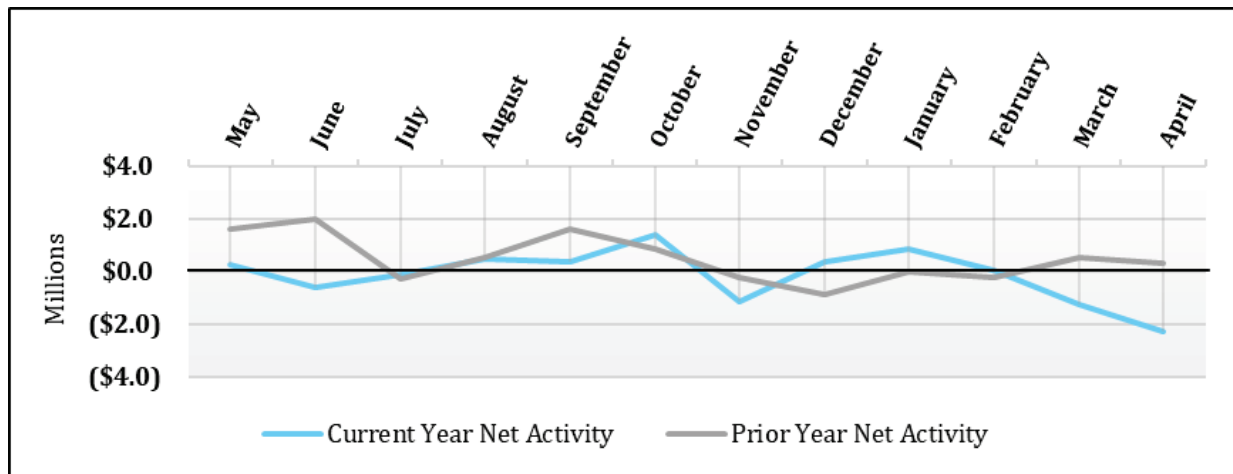
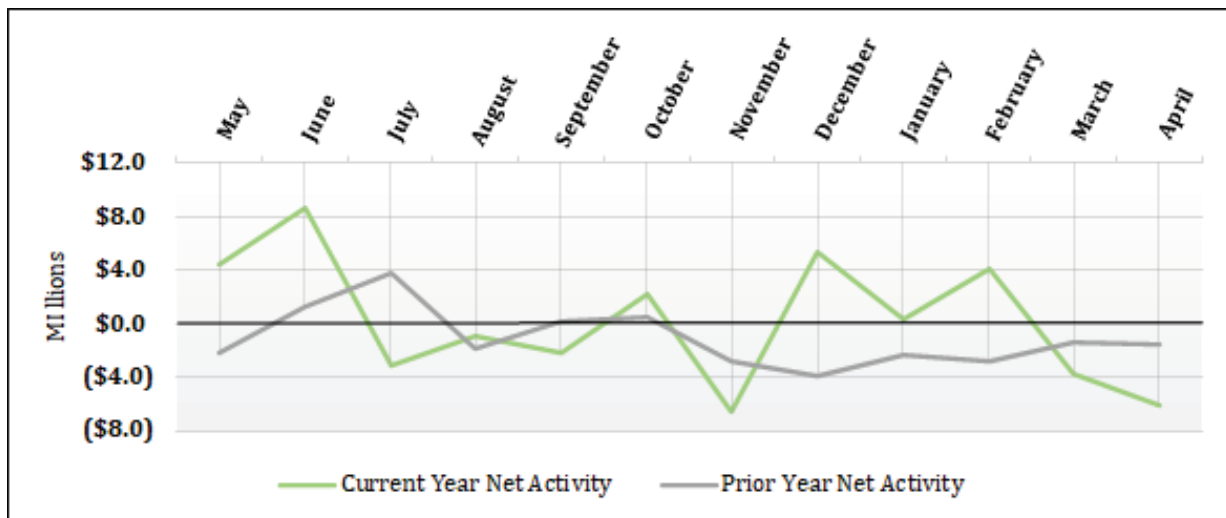
Date	Transaction	Amount	Balance
06/30/19	Record FY 18 Loan Receivable		24,113,034
07/15/19	Loan Receivable Payment (for the month of July)	638,978	23,474,056
08/08/19	Loan Receivable Payment (for the month of August)	640,686	22,833,370
09/06/19	Loan Receivable Payment (for the month of September)	642,400	22,190,970
10/02/19	Loan Receivable Payment (for the month of October)	644,118	21,546,852
11/04/19	Loan Receivable Payment (for the month of November)	645,840	20,901,012
12/03/19	Loan Receivable Payment (for the month of December)	647,567	20,253,445
01/06/20	Loan Receivable Payment (for the month of January)	649,299	19,604,146
02/04/20	Loan Receivable Payment (for the month of February)	651,035	18,953,111
03/03/20	Loan Receivable Payment (for the month of March)	652,776	18,300,335
04/15/20	Loan Receivable Payment (for the month of April)	654,522	17,645,813
		6,467,221	17,645,813

Table 6 – FY 2018 DWSD Loan Receivable Payments - Sewer

Date	Transaction	Principal	Interest	Total Paid
07/15/19	Loan Receivable Payment (for the month of July)	638,978	64,482	703,460
08/08/19	Loan Receivable Payment (for the month of August)	640,686	62,774	703,460
09/06/19	Loan Receivable Payment (for the month of September)	642,400	61,060	703,460
10/02/19	Loan Receivable Payment (for the month of October)	644,118	59,342	703,460
11/04/19	Loan Receivable Payment (for the month of November)	645,840	57,620	703,460
12/03/19	Loan Receivable Payment (for the month of December)	647,567	55,893	703,460
01/06/20	Loan Receivable Payment (for the month of January)	649,299	54,161	703,460
02/04/20	Loan Receivable Payment (for the month of February)	651,035	52,425	703,460
03/03/20	Loan Receivable Payment (for the month of March)	652,776	50,684	703,460
04/15/20	Loan Receivable Payment (for the month of April)	654,522	48,938	703,460
		6,467,221	567,379	7,034,600

Table 7 – Total DWSD Loan Receivable Balance – Sewer

Date	FY17 Loan Balance	FY18 Loan Balance	Total
06/30/18	29,300,000	-	29,300,000
07/31/18	29,300,000	-	29,300,000
08/31/18	29,300,000	-	29,300,000
09/30/18	29,300,000	-	29,300,000
10/31/18	29,300,000	-	29,300,000
11/30/18	29,300,000	-	29,300,000
12/31/18	29,300,000	-	29,300,000
01/31/19	29,300,000	-	29,300,000
02/29/19	24,664,538	-	24,664,538
03/31/19	22,310,770	-	22,310,770
04/30/19	21,520,780	-	21,520,780
05/31/19	20,728,075	-	20,728,075
06/30/19	19,932,645	24,113,034	44,045,679
07/31/19	19,134,480	23,474,056	42,608,537
08/31/19	18,333,572	22,833,370	41,166,942
09/30/19	17,529,911	22,190,970	39,720,881
10/31/19	16,723,487	21,546,852	38,270,340
11/30/19	15,914,291	20,901,012	36,815,303
12/31/19	15,102,314	20,253,445	35,355,759
01/31/20	14,287,545	19,604,146	33,891,691
02/29/20	13,469,975	18,953,111	32,423,086
03/31/20	12,649,595	18,300,335	30,949,930
04/30/20	11,826,395	17,645,813	29,472,208

Chart 3 – DWSD 12-Month Net Receipts - Water

Chart 4 – DWSD 12-Month Net Receipts – Sewer


Combined System Trust Receipts & Disbursements

Net Cash Flows and Receipts Basis: The trusts established pursuant to the Master Bond Ordinance (MBO) outline a flow of funds that governs the priority of the application of cash receipts from both the regional wholesale (i.e. Great Lakes Water Authority or GLWA) and local retail (i.e. Detroit Water & Sewerage Department or DWSD) activities which are further separated by the water system and the sewage disposal system.

Table 8 – Combined Net Cash Flows from Trust Receipts & Disbursements provides a summary of cash receipt collections and required MBO transfers by fiscal year as well as a total of all activity for GLWA since inception at January 1, 2016. Fiscal year 2020 reflects ten months of activity to date.

Water fund cash receipts exceeded required MBO disbursements by 7% through April 30, 2020 with a historical ratio of cash receipts exceeding MBO disbursements by 11% since January 1, 2016.

Sewer fund cash receipts exceeded required MBO disbursements by 3% through April 30, 2020 and with a historical ratio of cash receipts exceeding MBO disbursements by 1% since January 1, 2016.

Table 8 – Combined Net Cash Flows from Trust Receipts & Disbursements

	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020 Thru April 30	Life-to-Date Total
Water						
1 Receipts	\$ 175,890,592	\$ 449,393,014	\$ 439,685,148	\$ 436,462,453	\$ 356,920,831	\$1,858,352,038
2 MOU Adjustments	18,446,100	-	-	-	-	18,446,100
3 Adjusted Receipts	194,336,692	449,393,014	439,685,148	436,462,453	356,920,831	1,876,798,138
4 Disbursements	(194,065,737)	(381,844,129)	(390,114,267)	(386,925,081)	(332,961,854)	(1,685,911,068)
5 Receipts Net of Required Transfers	270,955	67,548,885	49,570,881	49,537,372	23,958,977	190,887,070
6 I&E Transfer	-	-	(25,739,700)	(56,102,080)	(22,593,751)	(104,435,531)
7 Net Receipts	\$ 270,955	\$ 67,548,885	\$ 23,831,181	\$ (6,564,708)	\$ 1,365,226	\$ 86,451,539
8 <i>Ratio of Receipts to Required Disbursements (Line 3/Line 4)</i>	100%	118%	113%	113%	107%	111%
Sewer						
9 Receipts	\$ 297,634,449	\$ 703,512,249	\$ 718,374,552	\$ 733,083,541	\$ 624,776,083	\$3,077,380,874
10 MOU Adjustments	55,755,100	-	-	6,527,200	-	62,282,300
11 Adjusted Receipts	353,389,549	703,512,249	718,374,552	739,610,741	624,776,083	3,139,663,174
12 Disbursements	(341,835,625)	(703,407,313)	(725,121,160)	(724,424,942)	(605,049,514)	(3,099,838,554)
13 Receipts Net of Required Transfers	11,553,924	104,936	(6,746,608)	15,185,799	19,726,569	39,824,620
14 I&E Transfer	-	-	(22,698,100)	(22,547,700)	(19,096,200)	(64,342,000)
15 Shortfall Advance	-	-	-	-	-	-
16 Shortfall Repayment (principal)	-	-	-	9,367,355	14,573,471	23,940,826
17 Net Receipts	\$ 11,553,924	\$ 104,936	\$ (29,444,708)	\$ (7,361,901)	\$ 15,203,840	\$ (576,553)
18 <i>Ratio of Receipts to Required Disbursements (Line 11/Line 12)</i>	103%	100%	99%	102%	103%	101%
Combined						
19 Receipts	\$ 473,525,041	\$1,152,905,263	\$1,158,059,700	\$1,169,545,994	\$ 981,696,914	\$4,935,732,912
20 MOU Adjustments	74,201,200	-	-	6,527,200	-	80,728,400
21 Adjusted Receipts	547,726,241	1,152,905,263	1,158,059,700	1,176,073,194	981,696,914	5,016,461,312
22 Disbursements	(535,901,362)	(1,085,251,442)	(1,115,235,427)	(1,111,350,023)	(938,011,368)	(4,785,749,622)
23 Receipts Net of Required Transfers	11,824,879	67,653,821	42,824,273	64,723,171	43,685,546	230,711,690
24 I&E Transfer	-	-	(48,437,800)	(78,649,780)	(41,689,951)	(168,777,531)
25 Shortfall Advance	-	-	-	-	-	-
26 Shortfall Repayment	-	-	-	9,367,355	14,573,471	23,940,826
27 Net Receipts	\$ 11,824,879	\$ 67,653,821	\$ (5,613,527)	\$ (4,559,254)	\$ 16,569,066	\$ 85,874,986
28 <i>Ratio of Receipts to Required Disbursements (Line 21/Line 22)</i>	102%	106%	104%	106%	105%	105%

APPENDIX

GLWA Aged Accounts Receivable- WATER ACCOUNTS

Balances as of 04/30/20

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
ALLEN PARK	\$188,900.73	\$188,900.73	\$0.00	\$0.00	\$0.00
ASH TOWNSHIP	\$69,866.30	\$69,866.30	\$0.00	\$0.00	\$0.00
BELLEVILLE	\$52,133.72	\$52,065.55	\$68.17	\$0.00	\$0.00
BERLIN TOWNSHIP	\$115,553.12	\$115,553.12	\$0.00	\$0.00	\$0.00
BROWNSTOWN TOWNSHIP	\$281,241.88	\$281,241.88	\$0.00	\$0.00	\$0.00
BRUCE TOWNSHIP	\$23,020.65	\$23,020.65	\$0.00	\$0.00	\$0.00
BURTCHVILLE TOWNSHIP	\$25,278.20	\$25,278.20	\$0.00	\$0.00	\$0.00
CANTON TOWNSHIP	\$1,579,645.98	\$1,579,645.98	\$0.00	\$0.00	\$0.00
CENTER LINE	\$38,778.19	\$38,778.19	\$0.00	\$0.00	\$0.00
CHESTERFIELD TOWNSHIP	\$333,645.68	\$333,645.68	\$0.00	\$0.00	\$0.00
CLINTON TOWNSHIP	\$598,523.69	\$598,523.69	\$0.00	\$0.00	\$0.00
COMMERCE TOWNSHIP	\$263,973.67	\$263,973.67	\$0.00	\$0.00	\$0.00
DEARBORN	\$1,663,164.83	\$1,663,164.83	\$0.00	\$0.00	\$0.00
DEARBORN HEIGHTS	\$305,583.95	\$305,583.95	\$0.00	\$0.00	\$0.00
EASTPOINTE	\$129,199.85	\$129,199.85	\$0.00	\$0.00	\$0.00
ECORSE	\$120,907.31	\$120,907.31	\$0.00	\$0.00	\$0.00
FARMINGTON	\$80,244.10	\$80,244.10	\$0.00	\$0.00	\$0.00
FARMINGTON HILLS	\$673,698.12	\$673,698.12	\$0.00	\$0.00	\$0.00
FERNDAL	\$175,719.16	\$175,719.16	\$0.00	\$0.00	\$0.00
FLAT ROCK	\$212,048.53	\$212,048.53	\$0.00	\$0.00	\$0.00
FLINT	\$319,893.21	\$319,893.21	\$0.00	\$0.00	\$0.00
FRASER	\$193,232.24	\$193,232.24	\$0.00	\$0.00	\$0.00
GARDEN CITY	\$135,981.74	\$135,981.74	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- WATER ACCOUNTS

Balances as of 04/30/20

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
GIBRALTAR	\$55,502.33	\$55,502.33	\$0.00	\$0.00	\$0.00
GROSSE ILE TOWNSHIP	\$171,805.59	\$171,805.59	\$0.00	\$0.00	\$0.00
GROSSE POINTE PARK	\$112,734.64	\$112,734.64	\$0.00	\$0.00	\$0.00
GROSSE POINTE SHORES	\$45,188.66	\$45,188.66	\$0.00	\$0.00	\$0.00
GROSSE POINTE WOODS	\$112,771.54	\$112,771.54	\$0.00	\$0.00	\$0.00
HAMTRAMCK	\$67,516.51	\$67,516.51	\$0.00	\$0.00	\$0.00
HARPER WOODS	\$128,147.80	\$128,147.80	\$0.00	\$0.00	\$0.00
HARRISON TWP	\$122,715.93	\$122,715.93	\$0.00	\$0.00	\$0.00
HAZEL PARK	\$120,570.01	\$120,570.01	\$0.00	\$0.00	\$0.00
HIGHLAND PARK	\$8,343,937.01	\$187,688.20	\$93,588.92	\$93,039.60	\$7,969,620.29
HURON TOWNSHIP	\$116,732.12	\$116,732.12	\$0.00	\$0.00	\$0.00
IMLAY CITY	\$106,849.41	\$106,849.41	\$0.00	\$0.00	\$0.00
IMLAY TOWNSHIP	\$1,272.67	\$1,272.67	\$0.00	\$0.00	\$0.00
INKSTER	\$199,093.98	\$199,093.98	\$0.00	\$0.00	\$0.00
KEEGO HARBOR	\$23,827.99	\$23,827.99	\$0.00	\$0.00	\$0.00
LAPEER	\$243,169.77	\$243,169.77	\$0.00	\$0.00	\$0.00
LENOX TOWNSHIP	\$46,435.82	\$46,435.82	\$0.00	\$0.00	\$0.00
LINCOLN PARK	\$194,653.33	\$194,653.33	\$0.00	\$0.00	\$0.00
LIVONIA	\$1,728,294.21	\$1,728,294.21	\$0.00	\$0.00	\$0.00
MACOMB TWP	\$1,877,210.63	\$1,877,210.63	\$0.00	\$0.00	\$0.00
MADISON HEIGHTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MAYFIELD TOWNSHIP	\$3,041.84	\$3,041.84	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- WATER ACCOUNTS

Balances as of 04/30/20

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
MELVINDALE	\$104,699.72	\$104,699.72	\$0.00	\$0.00	\$0.00
NEW HAVEN	\$29,063.70	\$29,063.70	\$0.00	\$0.00	\$0.00
NOCWA	\$3,386,729.78	\$3,386,729.78	\$0.00	\$0.00	\$0.00
NORTHVILLE	\$66,833.63	\$66,833.63	\$0.00	\$0.00	\$0.00
NORTHVILLE TOWNSHIP	\$441,579.33	\$441,579.33	\$0.00	\$0.00	\$0.00
NOVI	\$676,322.09	\$676,322.09	\$0.00	\$0.00	\$0.00
OAK PARK	\$233,522.28	\$233,522.28	\$0.00	\$0.00	\$0.00
OAKLAND CO DR COM	\$9,309.95	\$9,309.95	\$0.00	\$0.00	\$0.00
PLYMOUTH	\$82,775.71	\$82,775.71	\$0.00	\$0.00	\$0.00
PLYMOUTH TOWNSHIP	\$336,836.46	\$336,836.46	\$0.00	\$0.00	\$0.00
REDFORD TOWNSHIP	\$259,271.83	\$259,271.83	\$0.00	\$0.00	\$0.00
RIVER ROUGE	\$61,380.04	\$61,380.04	\$0.00	\$0.00	\$0.00
RIVERVIEW	\$142,239.38	\$142,239.38	\$0.00	\$0.00	\$0.00
ROCKWOOD	\$22,599.55	\$22,599.55	\$0.00	\$0.00	\$0.00
ROMEO	\$37,940.88	\$37,940.88	\$0.00	\$0.00	\$0.00
ROMULUS	\$697,004.28	\$697,004.28	\$0.00	\$0.00	\$0.00
ROSEVILLE	\$214,858.47	\$214,858.47	\$0.00	\$0.00	\$0.00
ROYAL OAK TOWNSHIP	\$15,799.32	\$15,799.32	\$0.00	\$0.00	\$0.00
SHELBY TOWNSHIP	\$1,043,745.83	\$1,043,745.83	\$0.00	\$0.00	\$0.00
SOCWA	\$3,507,281.29	\$3,507,281.29	\$0.00	\$0.00	\$0.00
SOUTH ROCKWOOD	\$18,336.25	\$18,336.25	\$0.00	\$0.00	\$0.00
SOUTHGATE	\$181,063.07	\$181,063.07	\$0.00	\$0.00	\$0.00
ST. CLAIR COUNTY-GREENWOOD T	\$98,569.37	\$98,569.37	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- WATER ACCOUNTS

Balances as of 04/30/20

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
ST. CLAIR SHORES	\$262,866.98	\$262,866.98	\$0.00	\$0.00	\$0.00
STERLING HEIGHTS	\$1,140,375.38	\$1,140,375.38	\$0.00	\$0.00	\$0.00
SUMPTER TOWNSHIP	\$55,396.97	\$55,396.97	\$0.00	\$0.00	\$0.00
SYLVAN LAKE	\$18,374.76	\$18,374.76	\$0.00	\$0.00	\$0.00
TAYLOR	\$377,020.96	\$377,020.96	\$0.00	\$0.00	\$0.00
TRENTON	\$139,925.63	\$139,925.63	\$0.00	\$0.00	\$0.00
TROY (SEOC)	\$1,047,260.74	\$1,047,260.74	\$0.00	\$0.00	\$0.00
UTICA	\$42,745.28	\$42,745.28	\$0.00	\$0.00	\$0.00
VAN BUREN TOWNSHIP	\$541,210.50	\$541,210.50	\$0.00	\$0.00	\$0.00
VILLAGE OF ALMONT	\$37,572.08	\$37,572.08	\$0.00	\$0.00	\$0.00
WALLED LAKE	\$62,247.87	\$62,247.87	\$0.00	\$0.00	\$0.00
WARREN	\$819,597.52	\$819,597.52	\$0.00	\$0.00	\$0.00
WASHINGTON TOWNSHIP	\$147,336.82	\$147,336.82	\$0.00	\$0.00	\$0.00
WAYNE	\$534,911.16	\$534,911.16	\$0.00	\$0.00	\$0.00
WEST BLOOMFIELD TWP (C-O)	\$1,571,393.36	\$1,571,393.36	\$0.00	\$0.00	\$0.00
WESTLAND	\$986,888.88	\$986,888.88	\$0.00	\$0.00	\$0.00
WIXOM	\$189,177.93	\$189,177.93	\$0.00	\$0.00	\$0.00
WOODHAVEN	\$263,028.38	\$263,028.38	\$0.00	\$0.00	\$0.00
YCUA	\$1,631,820.90	\$1,631,820.90	\$0.00	\$0.00	\$0.00
TOTAL WATER ACCOUNTS	\$42,938,620.95	\$34,782,303.97	\$93,657.09	\$93,039.60	\$7,969,620.29

GLWA Aged Accounts Receivable- SEWER ACCOUNTS

Balances as of 04/30/20

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
ALLEN PARK	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CENTER LINE	\$86,099.50	\$86,099.50	\$0.00	\$0.00	\$0.00
DEARBORN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
EVERGREEN-FARMINGTON	\$2,903,300.00	\$2,903,300.00	\$0.00	\$0.00	\$0.00
FARMINGTON	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GROSSE POINTE	\$74,500.00	\$74,500.00	\$0.00	\$0.00	\$0.00
GROSSE POINTE FARMS	\$229,200.00	\$229,200.00	\$0.00	\$0.00	\$0.00
GROSSE POINTE PARK	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
HAMTRAMCK	\$332,900.00	\$332,900.00	\$0.00	\$0.00	\$0.00
HARPER WOODS	\$18,300.00	\$18,300.00	\$0.00	\$0.00	\$0.00
HIGHLAND PARK	\$33,974,774.24	\$472,500.00	\$472,500.00	\$472,500.00	\$32,557,274.24
MELVINDALE	\$127,908.16	\$127,800.00	\$108.16	\$0.00	\$0.00
OAKLAND COUNTY GWK DD	\$3,772,000.00	\$3,772,000.00	\$0.00	\$0.00	\$0.00
OMID	\$5,852,314.62	\$5,852,314.62	\$0.00	\$0.00	\$0.00
REDFORD TOWNSHIP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ROUGE VALLEY	\$9,027,000.00	\$4,513,500.00	\$4,513,500.00	\$0.00	\$0.00
WAYNE COUNTY N.E.	\$2,069,800.00	\$2,069,800.00	\$0.00	\$0.00	\$0.00
WAYNE COUNTY-AREA #3	\$8,400.00	\$4,200.00	\$4,200.00	\$0.00	\$0.00
TOTAL SEWER ACCOUNTS	\$58,476,496.52	\$20,456,414.12	\$4,990,308.16	\$472,500.00	\$32,557,274.24

GLWA Aged Accounts Receivable- IWC ACCOUNTS

Balances as of 04/30/20

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
ALLEN PARK	\$1,532.83	\$1,532.83	\$0.00	\$0.00	\$0.00
AUBURN HILLS (C-O)	\$10,865.01	\$10,865.01	\$0.00	\$0.00	\$0.00
AUBURN HILLS (C-O) ADMIN	\$1,883.00	\$1,883.00	\$0.00	\$0.00	\$0.00
AUBURN HILLS (E-F)	\$366.73	\$366.73	\$0.00	\$0.00	\$0.00
BERKLEY	\$3,004.82	\$3,004.82	\$0.00	\$0.00	\$0.00
BEVERLY HILLS	\$949.78	\$949.78	\$0.00	\$0.00	\$0.00
BINGHAM FARMS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BIRMINGHAM (E-F)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BIRMINGHAM (SEOC)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BLOOMFIELD HILLS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BLOOMFIELD TOWNSHIP	\$7,128.42	\$7,128.42	\$0.00	\$0.00	\$0.00
CANTON TOWNSHIP	\$739,218.80	\$18,126.94	\$18,126.94	\$18,126.94	\$684,837.98
CENTER LINE	\$3,501.68	\$3,501.68	\$0.00	\$0.00	\$0.00
CHESTERFIELD TOWNSHIP	\$11,676.21	\$11,676.21	\$0.00	\$0.00	\$0.00
CITY OF FARMINGTON (E-F)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CITY OF FERNDALE	\$8,466.90	\$8,466.90	\$0.00	\$0.00	\$0.00
CITY OF ROCHESTER	\$3,540.55	\$3,540.55	\$0.00	\$0.00	\$0.00
CLARKSTON (C-O) ADMIN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CLAWSON	\$2,626.26	\$2,626.26	\$0.00	\$0.00	\$0.00
CLINTON TOWNSHIP	\$24,533.73	\$24,533.73	\$0.00	\$0.00	\$0.00
DEARBORN	\$70,293.86	\$70,293.86	\$0.00	\$0.00	\$0.00
DEARBORN HEIGHTS	\$9,188.53	\$9,188.53	\$0.00	\$0.00	\$0.00
DETROIT METRO WC AIRPORT	\$101.40	\$101.40	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- IWC ACCOUNTS

Balances as of 04/30/20

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
EASTPOINTE	\$6,163.43	\$6,163.43	\$0.00	\$0.00	\$0.00
FARMINGTON	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
FARMINGTON HILLS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
FRASER	\$4,715.10	\$4,715.10	\$0.00	\$0.00	\$0.00
GARDEN CITY	\$7,023.64	\$7,023.64	\$0.00	\$0.00	\$0.00
GROSSE POINTE	\$1,502.41	\$1,502.41	\$0.00	\$0.00	\$0.00
GROSSE POINTE FARMS	\$1,985.75	\$1,985.75	\$0.00	\$0.00	\$0.00
GROSSE POINTE PARK	\$2,247.70	\$2,247.70	\$0.00	\$0.00	\$0.00
GROSSE POINTE SHORES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GROSSE POINTE WOODS	\$2,458.95	\$2,458.95	\$0.00	\$0.00	\$0.00
HAMTRAMCK	\$3,968.12	\$3,968.12	\$0.00	\$0.00	\$0.00
HARPER WOODS	\$3,734.90	\$3,734.90	\$0.00	\$0.00	\$0.00
HARRISON TWP	\$3,034.74	\$3,034.74	\$0.00	\$0.00	\$0.00
HAZEL PARK	\$6,095.83	\$6,095.83	\$0.00	\$0.00	\$0.00
HIGHLAND PARK	\$1,714,684.70	\$7,811.18	\$3,892.07	\$3,853.20	\$1,699,128.25
HUNTINGTON WOODS	\$272.09	\$272.09	\$0.00	\$0.00	\$0.00
INDEPENDENCE (C-O) ADMIN	\$2,326.70	\$2,326.70	\$0.00	\$0.00	\$0.00
INKSTER	\$10,572.64	\$10,572.64	\$0.00	\$0.00	\$0.00
KEEGO HARBOR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
LAKE ORION	\$763.88	\$763.88	\$0.00	\$0.00	\$0.00
LATHRUP	\$1,336.79	\$1,336.79	\$0.00	\$0.00	\$0.00
LENOX TOWNSHIP	\$618.54	\$618.54	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- IWC ACCOUNTS

Balances as of 04/30/20

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
LIVONIA	\$38,212.59	\$38,212.59	\$0.00	\$0.00	\$0.00
MACOMB TWP	\$196.04	\$196.04	\$0.00	\$0.00	\$0.00
MADISON HEIGHTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MELVINDALE	\$6,577.48	\$6,577.48	\$0.00	\$0.00	\$0.00
NEW HAVEN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
NORTHVILLE	\$1,816.75	\$1,816.75	\$0.00	\$0.00	\$0.00
NORTHVILLE TOWNSHIP	\$177,363.16	\$4,348.37	\$4,348.37	\$4,348.37	\$164,318.05
NOVI	\$16,734.38	\$16,734.38	\$0.00	\$0.00	\$0.00
OAK PARK	\$13,016.38	\$13,016.38	\$0.00	\$0.00	\$0.00
OAKLAND TOWNSHIP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ORCHARD LAKE VILLAGE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ORION TOWNSHIP (C-O)	\$94.64	\$94.64	\$0.00	\$0.00	\$0.00
ORION TOWNSHIP (C-O) ADMIN	\$ (426.49)	\$0.00	\$ (426.49)	\$0.00	\$0.00
OXFORD TOWNSHIP	\$ (961.61)	\$ (961.61)	\$0.00	\$0.00	\$0.00
OXFORD VILLAGE	\$1,196.52	\$1,196.52	\$0.00	\$0.00	\$0.00
PLEASANT RIDGE	\$260.26	\$260.26	\$0.00	\$0.00	\$0.00
PLYMOUTH	\$ (3,707.86)	\$0.00	\$ (3,707.86)	\$0.00	\$0.00
PLYMOUTH TOWNSHIP	\$493,686.44	\$12,103.78	\$12,103.78	\$12,103.78	\$457,375.10
REDFORD TOWNSHIP	\$12,307.74	\$12,307.74	\$0.00	\$0.00	\$0.00
ROCHESTER HILLS	\$17,521.92	\$17,521.92	\$0.00	\$0.00	\$0.00
ROMULUS	\$880.49	\$880.49	\$0.00	\$0.00	\$0.00
ROSEVILLE	\$13,820.82	\$13,820.82	\$0.00	\$0.00	\$0.00
ROYAL OAK	\$13,170.17	\$13,170.17	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- IWC ACCOUNTS

Balances as of 04/30/20

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
ROYAL OAK TOWNSHIP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SHELBY TOWNSHIP	\$12,032.80	\$12,032.80	\$0.00	\$0.00	\$0.00
SOUTHFIELD (E-F)	\$27,100.84	\$27,100.84	\$0.00	\$0.00	\$0.00
SOUTHFIELD (SEOC)	\$3,711.24	\$3,711.24	\$0.00	\$0.00	\$0.00
ST. CLAIR SHORES	\$11,476.79	\$11,476.79	\$0.00	\$0.00	\$0.00
STERLING HEIGHTS	\$30,092.14	\$30,092.14	\$0.00	\$0.00	\$0.00
TROY (E-F)	\$365.04	\$365.04	\$0.00	\$0.00	\$0.00
TROY (SEOC)	\$35,593.09	\$35,593.09	\$0.00	\$0.00	\$0.00
UTICA	\$2,854.41	\$2,854.41	\$0.00	\$0.00	\$0.00
VAN BUREN TOWNSHIP	\$3,511.82	\$3,511.82	\$0.00	\$0.00	\$0.00
VILLAGE OF FRANKLIN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
WASHINGTON TOWNSHIP	\$1,358.76	\$1,358.76	\$0.00	\$0.00	\$0.00
WATERFORD TOWNSHIP DPW (ADMI	\$2,934.38	\$2,934.38	\$0.00	\$0.00	\$0.00
WAYNE	\$4,770.87	\$4,770.87	\$0.00	\$0.00	\$0.00
WEST BLOOMFIELD TWP (E-F)	\$6,094.14	\$6,094.14	\$0.00	\$0.00	\$0.00
WEST BLOOMFIELD TWP. (C-O) A	\$225.63	\$225.63	\$0.00	\$0.00	\$0.00
WESTLAND	\$21,547.50	\$21,547.50	\$0.00	\$0.00	\$0.00
TOTAL IWC ACCOUNTS	\$3,637,813.69	\$559,385.21	\$34,336.81	\$38,432.29	\$3,005,659.38

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 04/30/20

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
3M COMPANY	\$10,849.46	\$8,679.57	\$2,169.89	\$0.00	\$0.00
A & R PACKING CO., LLC	\$4,612.62	\$4,612.62	\$0.00	\$0.00	\$0.00
AACTRON	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ACADEMY PACKING CO.	\$256.03	\$256.03	\$0.00	\$0.00	\$0.00
ACME RUSTPROOF	\$51.61	\$51.61	\$0.00	\$0.00	\$0.00
AEVITAS SPECIALITY SERVICES	\$43,969.21	\$20,351.11	\$12,524.90	\$11,093.20	\$0.00
ALEXANDER & HORNUNG	\$5,373.96	\$5,373.96	\$0.00	\$0.00	\$0.00
ALEXANDER & HORNUNG	\$21,938.89	\$21,938.89	\$0.00	\$0.00	\$0.00
ALEXANDER & HORNUNG	\$684.70	\$684.70	\$0.00	\$0.00	\$0.00
ALGAL SCIENTIFIC CORPORATION	\$16,533.05	\$0.00	\$0.00	\$0.00	\$16,533.05
ALL CHEM CORP, LLC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ALPHA STAMPING COMPANY	\$228.43	\$228.43	\$0.00	\$0.00	\$0.00
AMERICAN WASTE TECH INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AMERITI MFG. CO.	\$17,697.48	\$17,697.48	\$0.00	\$0.00	\$0.00
ATWATER IN THE PARK	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AUTOMOTIVE FINISH	\$4.33	\$4.33	\$0.00	\$0.00	\$0.00
AXLE BREWING COMPANY, LLC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
B. NEKTAR MEADERY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BAFFIN BREWING COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BARON INDUSTRIES	\$1,288.08	\$1,288.08	\$0.00	\$0.00	\$0.00
BARTZ BAKERY	\$80.43	\$80.43	\$0.00	\$0.00	\$0.00
BASTONE BREWERY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BATCH BREWING COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 04/30/20

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
BAYS MICHIGAN CORPORATION	\$6.43	\$6.43	\$0.00	\$0.00	\$0.00
BEIRUT BAKERY, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BETTER MADE SNACK FOOD	\$29,590.03	\$29,590.03	\$0.00	\$0.00	\$0.00
BLACK LOTUS BREWING CO.	\$61.25	\$0.00	\$0.00	\$0.00	\$61.25
BOZEK'S MARKET	\$54.07	\$54.07	\$0.00	\$0.00	\$0.00
BREW DETROIT	\$5,247.77	\$4,812.57	\$435.20	\$0.00	\$0.00
BROADWAY MKT CORNED BEEF	\$ (51.62)	\$0.00	\$ (51.62)	\$0.00	\$0.00
BROOKS BREWING, LLC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BROWN IRON BREWHOUSE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CADILLAC STRAITS BREWING CO.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CANTON BREW WORKS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CAPITAL REPRODUCTIONS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CF BURGER CREAMERY	\$31,288.79	\$31,288.79	\$0.00	\$0.00	\$0.00
CHILANGO'S BAKERY	\$1,681.64	\$35.38	\$35.39	\$20.91	\$1,589.96
CINTAS CORP. - MACOMB TWP.	\$49,317.82	\$49,317.82	\$0.00	\$0.00	\$0.00
CINTAS CORPORATION	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CINTAS CORPORATION	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CITY LAUNDRY, INC.	\$26.86	\$17.12	\$9.74	\$0.00	\$0.00
CLASSIC CONTAINER CORP.	\$6.80	\$6.80	\$0.00	\$0.00	\$0.00
COCA-COLA REFRESHMENTS USA,	\$2,023.98	\$2,023.98	\$0.00	\$0.00	\$0.00
COSTCO WHOLESALE STORE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
COSTCO WHOLESALE STORE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 04/30/20

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
COSTCO WHOLESALE STORE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
COSTCO WHOLESALE STORE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
COUNTRY FRESH DAIRY CO.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CROSS CHEMICAL COMPANY, INC.	\$1,046.27	\$1,046.27	\$0.00	\$0.00	\$0.00
DARLING INGREDIENTS, INC.	\$9,048.27	\$9,048.27	\$0.00	\$0.00	\$0.00
DAVE'S SAUSAGE FACTORY 2	\$379.93	\$379.93	\$0.00	\$0.00	\$0.00
DEARBORN BREWING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DEARBORN SAUSAGE	\$6,563.83	\$6,563.83	\$0.00	\$0.00	\$0.00
DEARBORN SAUSAGE CO., INC.	\$8,193.79	\$8,193.79	\$0.00	\$0.00	\$0.00
DETROIT BEER CO.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DETROIT LINEN SERVICE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DETROIT METRO WC AIRPORT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DETROIT RIVERTOWN BREWERY CC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DETROIT SAUSAGES CO INC	\$31.32	\$14.24	\$8.54	\$8.54	\$0.00
DETRONIC INDUSTRIES, INC.	\$64.43	\$64.43	\$0.00	\$0.00	\$0.00
DIFCO LABORATORIES, INC.	\$59,571.94	\$23,805.70	\$17,041.53	\$9,441.01	\$9,283.70
DIVERSIFIED CHEM TECH. INC.	\$150.40	\$71.86	\$78.54	\$0.00	\$0.00
DOMESTIC UNIFORM RENTAL	\$3,563.34	\$3,563.34	\$0.00	\$0.00	\$0.00
DOMESTIC UNIFORM RENTAL	\$1,431.41	\$1,431.41	\$0.00	\$0.00	\$0.00
DOWNEY BREWING COMPANY	\$42.00	\$0.00	\$0.00	\$42.00	\$0.00
E.W. GROBBEL'S SONS, INC.	\$7,496.11	\$7,496.11	\$0.00	\$0.00	\$0.00
EASTERN MARKET BREWING COMP	\$181.55	\$0.00	\$0.00	\$181.55	\$0.00
ENVIROSOLIDS, L.L.C.	\$49,464.77	\$25,899.09	\$0.00	\$0.00	\$23,565.68

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 04/30/20

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
EQ DETROIT, INC.	\$1,888.06	\$1,888.06	\$0.00	\$0.00	\$0.00
EQ DETROIT, INC.	\$11,331.33	\$11,331.33	\$0.00	\$0.00	\$0.00
EQ DETROIT, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
EQ DETROIT, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ETON ST BREWERY- GRIFFIN CLF	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
EXTRUDE HONE CORPORATION	\$201.44	\$201.44	\$0.00	\$0.00	\$0.00
EXTRUDEHODE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
FARMINGTON BREWING COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
FAYGO BEVERAGES, INC.	\$6,732.44	\$6,732.44	\$0.00	\$0.00	\$0.00
FORD NEW MODEL PROGRAM	\$643.73	\$643.73	\$0.00	\$0.00	\$0.00
FOUNDERS BREWING COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
FRESH-PAK	\$443.54	\$282.39	\$161.15	\$0.00	\$0.00
FRESH-PAK	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
G2O ENERGY, LLC	\$ (1,890.28)	\$ (1,890.28)	\$0.00	\$0.00	\$0.00
GENERAL LINEN SUPPLY CO.	\$13,022.84	\$13,022.84	\$0.00	\$0.00	\$0.00
GLOBAL TITANIUM, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GRANITE CITY FOOD & BREWERY	\$ (16.01)	\$0.00	\$0.00	\$0.00	\$ (16.01)
GRANITE CITY FOOD & BREWERY	\$53.43	\$0.00	\$0.00	\$53.43	\$0.00
GRANITE CITY FOOD & BREWERY	\$ (85.95)	\$0.00	\$0.00	\$ (85.95)	\$0.00
GREAT BARABOO BREWING CO.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
HACIENDA MEXICAN FOODS	\$4,570.13	\$927.34	\$433.90	\$476.44	\$2,732.45
HENKEL CORPORATION	\$302.94	\$175.02	\$0.00	\$127.92	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 04/30/20

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
HOME STYLE FOOD INC.	\$193.44	\$193.44	\$0.00	\$0.00	\$0.00
HOMEGROWN BREWING COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
HOODS CLEANERS	\$211.33	\$0.00	\$0.00	\$0.00	\$211.33
HOUGHTON INTERNATIONAL INC.	\$1,043.09	\$1,043.09	\$0.00	\$0.00	\$0.00
HOUGHTON INTERNATIONAL INC.	\$585.96	\$585.96	\$0.00	\$0.00	\$0.00
HOUGHTON INTERNATIONAL INC.	\$5,161.43	\$5,161.43	\$0.00	\$0.00	\$0.00
HUNTINGTON CLEANERS	\$487.34	\$487.34	\$0.00	\$0.00	\$0.00
IDP, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
INDUSTRIAL METAL COATING	\$556.41	\$556.41	\$0.00	\$0.00	\$0.00
ISLAMIC SLAUGHTER HOUSE	\$1,515.73	\$1,515.73	\$0.00	\$0.00	\$0.00
ITALIAN BUTTER BREAD STICKS	\$9.66	\$3.22	\$0.00	\$1.61	\$4.83
J & G FOOD PRODUCTS, INC.	\$42.70	\$42.70	\$0.00	\$0.00	\$0.00
JAMEX BREWING CO.	\$81.07	\$0.00	\$0.00	\$40.69	\$40.38
KAR NUT PRODUCTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
KOWALSKI SAUSAGES, CO.	\$1,189.98	\$1,189.98	\$0.00	\$0.00	\$0.00
KUHNHENN BREWING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
LA MICHOACANA FLOUR TORTILLA	\$1,171.24	\$1,171.24	\$0.00	\$0.00	\$0.00
LA MICHOACANA FLOUR TORTILLA	\$90.75	\$90.75	\$0.00	\$0.00	\$0.00
LEAR CORPORATION DBA EAGLE C	\$2,859.95	\$2,859.95	\$0.00	\$0.00	\$0.00
LIBERTY STREET PROD. BREWERY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
LILY'S SEAFOOD GRILL & BREWE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MACDERMID, INC.	\$2,826.18	\$2,826.18	\$0.00	\$0.00	\$0.00
MCCLURE'S PICKLES	\$2,828.02	\$564.56	\$263.46	\$182.81	\$1,817.19

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 04/30/20

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
MCNICHOLS POLISHING & ANODIZ	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MELLO MEATS INC, - KUBISCH S	\$142.30	\$142.30	\$0.00	\$0.00	\$0.00
METROPOLITAN BAKERY	\$818.73	\$818.73	\$0.00	\$0.00	\$0.00
MIBA HYDRAMECHANICA CORP.	\$237.45	\$237.45	\$0.00	\$0.00	\$0.00
MICHIGAN DAIRY	\$97,241.85	\$97,241.85	\$0.00	\$0.00	\$0.00
MICHIGAN PROD. MACHINING	\$2,260.57	\$2,260.57	\$0.00	\$0.00	\$0.00
MICHIGAN SOY PRODUCTS CO.	\$476.44	\$476.44	\$0.00	\$0.00	\$0.00
MIDWEST WIRE PRODUCTS, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MILANO BAKERY	\$1,387.97	\$1,387.97	\$0.00	\$0.00	\$0.00
MILTON CHILI CO.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MINNIE MARIE BAKERS, INC	\$2,739.49	\$2,739.49	\$0.00	\$0.00	\$0.00
MISTER UNIFORM & MAT RENTALS	\$48.36	\$5.58	\$0.70	\$5.93	\$36.15
MOTOR CITY BREWING WORKS	\$1,313.13	\$0.00	\$0.00	\$178.07	\$1,135.06
NATIONAL CHILI COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
NORTH CENTER BREWING COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
NORTHERN LAKES SEAFOOD & MEA	\$30.90	\$30.90	\$0.00	\$0.00	\$0.00
OAKWOOD BAKERY	\$285.76	\$285.76	\$0.00	\$0.00	\$0.00
PARKER'S HILLTOP BREWER & SE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
PELLERITO FOODS INC.	\$626.39	\$626.39	\$0.00	\$0.00	\$0.00
PEPSI COLA, INC.	\$39,703.57	\$39,703.57	\$0.00	\$0.00	\$0.00
PERSONAL UNIFORM SERVICE, IN	\$65.92	\$65.92	\$0.00	\$0.00	\$0.00
PETRO ENVIRON TECH, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 04/30/20

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
PINE TREE ACRES, INC.	\$78,610.12	\$78,610.12	\$0.00	\$0.00	\$0.00
PLATING SPEC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
POWER VAC OF MICHIGAN, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
PREMIER PLATING, LLC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
PRODUCTION SPRING, LLC.	\$270.35	\$270.35	\$0.00	\$0.00	\$0.00
QUALA SERVICES, LLC	\$1,073.41	\$1,073.41	\$0.00	\$0.00	\$0.00
RAY'S ICE CREAM CO.	\$50.71	\$50.71	\$0.00	\$0.00	\$0.00
RED SPOT PAINT #409139	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
RIVER ROUGE BREWING COMPANY	\$388.73	\$388.73	\$0.00	\$0.00	\$0.00
ROAK BREWING CO. LLC	\$1,180.47	\$0.00	\$0.00	\$1,180.47	\$0.00
ROCHESTER MILLS BEER COMPANY	\$285.99	\$0.00	\$0.00	\$285.99	\$0.00
ROCHESTER MILLS PROD BREWERY	\$1,253.77	\$0.00	\$0.00	\$1,253.77	\$0.00
ROYAL OAK BREWERY	\$ (885.14)	\$0.00	\$0.00	\$0.00	\$ (885.14)
RTT	\$27,772.36	\$0.00	\$0.00	\$0.00	\$27,772.36
SEAFARE FOODS, INC.	\$73.73	\$73.73	\$0.00	\$0.00	\$0.00
SHERWOOD BREWING COMPANY	\$1,034.82	\$0.00	\$0.00	\$100.35	\$934.47
SMITH-WATKINS, LLC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SPRAYTEK, INC.	\$14.52	\$14.52	\$0.00	\$0.00	\$0.00
SUPERNATURAL SPIRITS & BREWI	\$75.08	\$0.00	\$0.00	\$75.08	\$0.00
SWEETHEART BAKERY, INC.	\$2,187.71	\$158.30	\$79.87	\$79.87	\$1,869.67
THE CROWN GROUP-LIVONIA PLAN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TOM LAUNDRY CLEANERS	\$6.90	\$6.90	\$0.00	\$0.00	\$0.00
TRAFFIC JAM & SNUG	\$62.66	\$0.00	\$0.00	\$21.00	\$41.66

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 04/30/20

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
TURRI'S ITALIAN FOODS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TURRI'S ITALIAN FOODS	\$184,681.65	\$184,681.65	\$0.00	\$0.00	\$0.00
U-METCO, INC.	\$2,628.40	\$2,628.40	\$0.00	\$0.00	\$0.00
UNCLE RAYS SNACKS, LLC	\$62,642.01	\$62,642.01	\$0.00	\$0.00	\$0.00
UNCLE RAYS SNACKS, LLC	\$2,078.52	\$2,078.52	\$0.00	\$0.00	\$0.00
UNIQUE LINEN SERVICES, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
UNITED FISH DISTRIBUTORS	\$6.94	\$6.94	\$0.00	\$0.00	\$0.00
UNITED LINEN SERVICE, LLC.	\$530.34	\$530.34	\$0.00	\$0.00	\$0.00
UNITED MEAT & DELI	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
URBANREST BREWING COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
US ECOLOGY MICHIGAN	\$992.01	\$992.01	\$0.00	\$0.00	\$0.00
US ECOLOGY ROMULUS, INC.	\$3,833.88	\$3,833.88	\$0.00	\$0.00	\$0.00
USHER OIL SERVICES	\$4,964.87	\$4,964.87	\$0.00	\$0.00	\$0.00
VALICOR ENVIROMENTAL SERVICE	\$3,118.59	\$3,118.59	\$0.00	\$0.00	\$0.00
VERNDALÉ PRODUCTS	\$5,327.30	\$5,327.30	\$0.00	\$0.00	\$0.00
VERNDALÉ PRODUCTS, INC.	\$5,313.45	\$5,313.45	\$0.00	\$0.00	\$0.00
VERNOR FOOD PRODUCTS	\$ (36.26)	\$0.00	\$0.00	\$0.00	\$ (36.26)
WIGLEY'S MEAT PROCESS	\$540.72	\$540.72	\$0.00	\$0.00	\$0.00
WINTER SAUSAGE MFG. CO.	\$822.47	\$822.47	\$0.00	\$0.00	\$0.00
WINTER SAUSAGE MFG. CO.	\$162.22	\$162.22	\$0.00	\$0.00	\$0.00
WOLVERINE PACKING CO	\$5,096.66	\$5,096.66	\$0.00	\$0.00	\$0.00
WOLVERINE PACKING CO.	\$2,504.40	\$2,504.40	\$0.00	\$0.00	\$0.00

Balances as of 04/30/20

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
WOODWARD AVENUE BREWERS	\$85.18	\$0.00	\$0.00	\$85.18	\$0.00
TOTAL POLLUTANT SURCHARGE ACCOUNTS	\$994,231.75	\$849,498.91	\$33,191.19	\$24,849.87	\$86,691.78

City of Highland Park Billings and Collections

	Water	Sewer	IWC	Cumulative Total
June 30, 2012 Balance	\$ -	\$ 10,207,956	\$ 852,987	\$ 11,060,943
FY 2013 Billings	485,887	4,987,635	154,444	5,627,966
FY 2013 Payments	<u>(65,652)</u>	<u>(2,206,211)</u>	<u>-</u>	<u>(2,271,863)</u>
				-
June 30, 2013 Balance	\$ 420,235	\$ 12,989,380	\$ 1,007,431	\$ 14,417,046
FY 2014 Billings	1,004,357	6,980,442	161,951	8,146,750
FY 2014 Payments	<u>-</u>	<u>(1,612,633)</u>	<u>-</u>	<u>(1,612,633)</u>
				-
June 30, 2014 Balance	\$ 1,424,592	\$ 18,357,189	\$ 1,169,382	\$ 20,951,163
FY 2015 Billings	1,008,032	5,553,123	165,739	6,726,894
FY 2015 Payments	<u>-</u>	<u>(1,444,623)</u>	<u>-</u>	<u>(1,444,623)</u>
				-
June 30, 2015 Balance	\$ 2,432,625	\$ 22,465,689	\$ 1,335,121	\$ 26,233,435
FY 2016 Billings	1,157,178	5,612,167	106,431	6,875,776
FY 2016 Payments	<u>-</u>	<u>(2,022,335)</u>	<u>-</u>	<u>(2,022,335)</u>
				-
June 30, 2016 Balance	\$ 3,589,803	\$ 26,055,521	\$ 1,441,551	\$ 31,086,875
FY 2017 Billings	1,245,267	5,802,000	101,999	7,149,265
FY 2017 Payments	<u>-</u>	<u>(2,309,186)</u>	<u>-</u>	<u>(2,309,186)</u>
				-
June 30, 2017 Balance	\$ 4,835,070	\$ 29,548,335	\$ 1,543,550	\$ 35,926,954
FY 2018 Billings	1,277,179	5,657,101	80,472	7,014,752
FY 2018 Payments	<u>-</u>	<u>(4,108,108)</u>	<u>-</u>	<u>(4,108,108)</u>
				-
June 30, 2018 Balance	\$ 6,112,248	\$ 31,097,327	\$ 1,624,022	\$ 38,833,597
FY 2019 Billings (12 Months)	1,238,797	5,617,100	51,220	6,907,117
FY 2019 Payments (12 Months)	<u>-</u>	<u>(5,241,583)</u>	<u>-</u>	<u>(5,241,583)</u>
				-
June 30, 2019 Balance	\$ 7,351,045	\$ 31,472,844	\$ 1,675,243	\$ 40,499,132
FY 2020 Billings (10 Months)	992,892	4,720,400	39,442	5,752,734
FY 2020 Payments (10 Months)	<u>-</u>	<u>(2,218,469)</u>	<u>-</u>	<u>(2,218,469)</u>
				-
Balance as of April 30, 2020	<u>\$ 8,343,937</u>	<u>\$ 33,974,775</u>	<u>\$ 1,714,685</u>	<u>\$ 44,033,397</u>