

GLWA

Great Lakes Water Authority



Monthly Financial Report Binder

December 2019

**Presented to the
Great Lakes Water Authority
Audit Committee on March 27, 2020**

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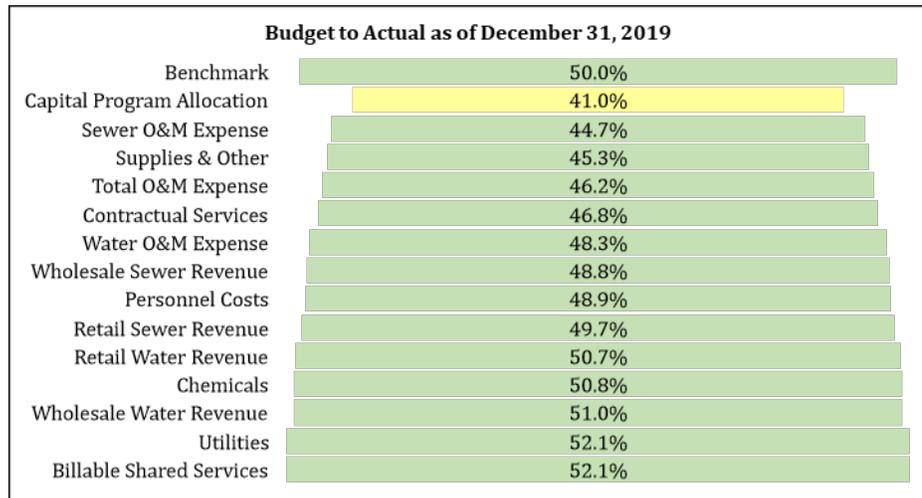
 Highland Park Life-to-Date Billings & Collections B-1

Revenue and Expense Budget to Actual¹ – Pro-rata Benchmark of 50%

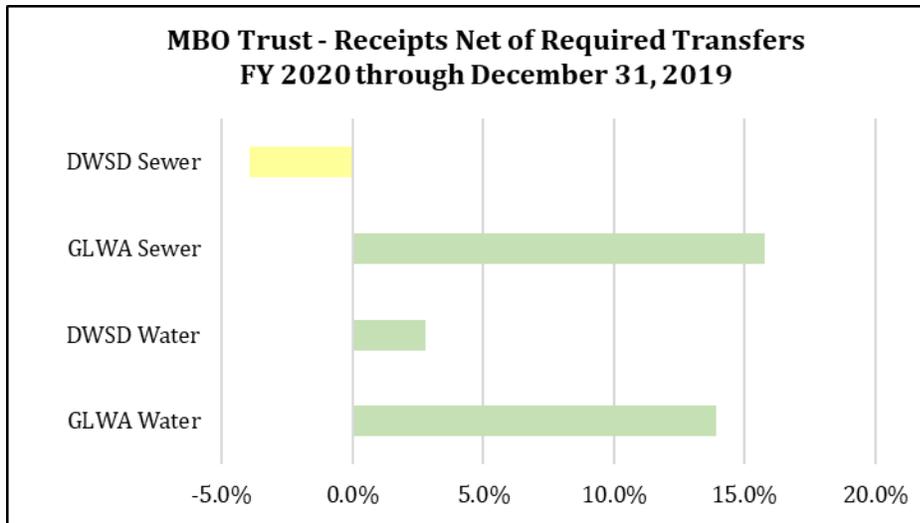
Most revenue and expense reporting categories fall within 7.5% of the pro-rata budget to actual benchmark.

The Capital Program Allocation variation is due to two reasons. Through December 31, 2019, GLWA team member hours posted to projects is 10% less than the prior

year due to increased focus on large maintenance projects versus capital projects. The remaining difference is due to a new element this year which is the AECOM Capital Program Management project. To date, no fees have been incurred that have been identified for capitalization.



Master Bond Ordinance (MBO) Trust Net Receipts



Net cash flow (receipts) is 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 also report positive cash flows through December. DWSD Sewer reported positive net receipts of \$5.4 million for December 2019 decreasing the cumulative FY 2020 DWSD Sewer shortfall to \$5.3 million. Looking ahead, this shortfall is remedied by the end of February 2020 with cash replenishment transfers to GLWA; the DWSD Operations & Maintenance budgeted transfer request was reduced by \$1 million for March 2020 to hedge any future cashflow timing issues.

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

¹ All amounts are GLWA entity-wide unless noted as water, sewer, and/or retail.

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 December 2019, the pro-rata benchmark is 50.0% (6 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 either at or above target and are consistent with the prior year (FY 2019) at the same time. 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 48.3%. The *sewer* system O&M expenses, at 44.7%, 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 47.4%; while the *sewer* system is at 48.4%. 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 December 31, 2018, of \$4.1 million (FY 2019 ended with a small surplus). In order 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. For FY 2020, the DWSD *water* system has budgetary surplus of \$1.4 million and the DWSD *sewer* system has a budgetary shortfall of \$5.3 million through December 31, 2019. Looking ahead, this shortfall is remedied by the end of February 2020 with cash replenishment transfers to GLWA; the DWSD Operations & Maintenance budgeted transfer request was reduced by \$1 million for March 2020 to hedge any future cashflow timing issues.
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 12/31/2018	Percent Year-to- Date	FY 2020 BOARD ADOPTED BUDGET	FY 2020 AMENDED BUDGET	FY 2020 THRU 12/31/2019	Percent Year-to- Date
Water System							
Revenues							
Suburban Wholesale Customer Charges	\$ 307,383	\$ 161,170	52.4%	\$ 309,285	\$ 309,285	\$ 158,158	51.1%
Retail Service Charges	20,181	10,163	50.4%	21,296	21,296	10,648	50.0%
Investment Earnings	9,425	4,631	49.1%	9,084	9,084	3,198	35.2%
Other Revenues	-	25	0.0%	-	-	-	0.0%
Total Revenues	\$ 336,989	\$ 175,989	52.2%	\$ 339,664	\$ 339,664	\$ 172,004	50.6%
Revenue Requirements							
Operations & Maintenance Expense	\$ 121,563	\$ 58,671	48.3%	\$ 131,491	\$ 131,491	\$ 63,539	48.3%
General Retirement System Legacy Pension	6,048	3,024	50.0%	6,048	6,048	3,024	50.0%
Debt Service	131,242	65,610	50.0%	137,558	137,558	65,180	47.4%
General Retirement System Accelerated Pension	6,268	3,134	50.0%	6,268	6,268	3,134	50.0%
Extraordinary Repair & Replacement Deposit	-	-	0.0%	-	-	-	0.0%
Water Residential Assistance Program Contribution	1,673	837	50.0%	1,698	1,698	849	50.0%
Lease Payment	22,500	11,250	50.0%	22,500	22,500	11,250	50.0%
Operating Reserve Deposit	-	-	0.0%	3,976	3,976	1,988	50.0%
Improvement & Extension Fund Transfer Pending	47,695	23,848	50.0%	30,126	30,126	15,063	50.0%
Total Revenue Requirements	\$ 336,989	\$ 166,373	49.4%	\$ 339,664	\$ 339,664	\$ 164,026	48.3%
Net Difference		\$ 9,617				\$ 7,978	
<i>Recap of Net Positive Variance</i>							
		<i>Revenue Variance</i>	\$ 7,495			\$ 2,172	
		<i>Revenue Requirement Variance</i>	2,122			5,806	
		<i>Overall Variance</i>	\$ 9,617			\$ 7,978	

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

	FY 2019 AMENDED BUDGET	FY 2019 THRU 12/31/2018	Percent Year-to- Date	FY 2020 BOARD ADOPTED BUDGET	FY 2020 AMENDED BUDGET	FY 2020 THRU 12/31/2019	Percent Year-to- Date
Sewer System							
Revenues							
Suburban Wholesale Customer Charges	\$ 271,296	\$ 137,477	50.7%	\$ 272,324	\$ 272,324	\$ 134,205	49.3%
Retail Service Charges	181,159	91,504	50.5%	185,807	185,807	92,904	50.0%
Industrial Waste Control Charges	15,001	4,608	30.7%	13,744	13,744	4,186	30.5%
Pollutant Surcharges	-	3,012	0.0%	-	-	3,057	0.0%
Investment Earnings	6,879	4,358	63.4%	8,731	8,731	4,141	47.4%
Other Revenues	-	267	0.0%	-	-	247	0.0%
Total Revenues	\$ 474,335	\$ 241,225	50.9%	\$ 480,605	\$ 480,605	\$ 238,740	49.7%
Revenue Requirements							
Operations & Maintenance Expense	\$ 191,079	\$ 85,870	44.9%	\$ 187,057	\$ 187,057	\$ 83,639	44.7%
General Retirement System Legacy Pension	10,824	5,412	50.0%	10,824	10,824	5,412	50.0%
Debt Service	208,389	101,995	48.9%	215,739	215,739	104,497	48.4%
General Retirement System Accelerated Pension	11,621	5,810	50.0%	11,621	11,621	5,810	50.0%
Extraordinary Repair & Replacement Deposit	-	-	0.0%	-	-	-	0.0%
Water Residential Assistance Program Contribution	2,374	1,187	50.0%	2,403	2,403	1,202	50.0%
Lease Payment	27,500	13,750	50.0%	27,500	27,500	13,750	50.0%
Operating Reserve Deposit	-	-	0.0%	-	-	-	0.0%
DWSD Budget Shortfall Pending	-	4,129	0.0%	-	-	5,337	0.0%
Improvement & Extension Fund Transfer Pending	22,548	11,274	50.0%	25,462	25,462	12,731	50.0%
Total Revenue Requirements	\$ 474,335	\$ 229,428	48.4%	\$ 480,605	\$ 480,605	\$ 232,378	48.4%
Net Difference		\$ 11,797				\$ 6,362	
<i>Recap of Net Positive Variance</i>							
		<i>Revenue Variance</i>	\$ 4,058			\$ (1,563)	
		<i>Revenue Requirement Variance</i>	7,740			7,925	
		<i>Overall Variance</i>	\$ 11,797			\$ 6,362	

Operations & Maintenance Budget – Major Budget Categories

The year-over-year benchmark ratio as of December 31, 2019, is 50.0% (six 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. An analysis of the benefits is currently being conducted using updated benefit information. A budget amendment may be needed to increase the budget for the FY 2020 employee benefits.

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

Major Budget Categories	FY 2019			FY 2020		FY 2020		
	FY 2019 AMENDED BUDGET	ACTIVITY THRU 12/31/2018	Percent Year-to-Date	BOARD ADOPTED BUDGET	FY 2020 AMENDED BUDGET	ACTIVITY THRU 12/31/2019	Percent Year-to-Date	
Water	\$ 66,596	\$ 34,552	51.9%	\$ 66,021	\$ 66,021	\$ 34,780	52.7%	
Sewer	118,319	54,265	45.9%	115,985	115,985	53,139	45.8%	
Centralized	99,045	44,250	44.7%	106,914	106,914	45,836	42.9%	
Administrative	28,683	12,716	44.3%	29,628	29,628	14,178	47.9%	
Employee Benefits	-	(1,242)	0.0%	-	-	(756)	0.0%	
Total O&M Budget	\$ 312,642	\$ 144,541	46.2%	\$ 318,548	\$ 318,548	\$ 147,178	46.2%	

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 46.2% which is reasonably within the pro-rata benchmark of 50.0%. This positive variance equates to a dollar amount of \$12.1 million. The expense category commentary is provided below for items highlighted on Table 3.

Personnel Costs: The overall category is on target with the pro-rata benchmark; coming in at 48.9% through December 2019.

Utilities: The overall category is higher than the benchmark; coming in at 52.1% through December 2019. This variance is not unexpected as usage varies throughout the year.

- **Electric** is higher than the benchmark, coming in at 54.7%. This increase is primarily due to the pumps being required to run longer than normal as a result of the wet weather that Michigan has 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 40.3%. While this is lower than the benchmark of 50.0%, it is consistent with the prior year (FY 2019). A review of the accounts has confirmed that the usage is variable throughout the year. It is anticipated that actuals will come in at the anticipated budgeted amount for FY 2020.
- **Water service** is lower than the benchmark, coming in at 45.1%. 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 through the use of 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 50.8% through December 2019.

Supplies & Other: This category is lower than the benchmark; coming in at 45.3% through December 2019. 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.

Contractual Services: The overall category is lower than the benchmark; coming in at 46.8% through December 2019. Variances in this category 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 lower than the benchmark; coming in at 41.0% through November 2019. 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. A new element this year is the addition of contracted AECOM Capital Program Management services. The variance is due to two primary reasons. First, through December 31, 2019, GLWA team member hours posted to projects is 10% less than the prior year. This is due to increased focus on large maintenance projects versus capital projects. Second, no AECOM fees have been incurred that have been identified for capitalization.

Shared Services: This category is higher than the benchmark; coming in at 52.1% through December 2019. 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. A budget amendment was entered in December 2019 to adjust the shared services budget to this revised FY 2020 forecast.

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

Expense Categories	FY 2019		Percent	FY 2019		Percent	FY 2020		Percent	PRORATED
	FY 2019 AMENDED BUDGET	ACTIVITY THRU 12/31/2018	Year-to- Date at 12/31/2018	ACTIVITY THRU 6/30/2019	Year-to- Date at 6/30/2019	FY 2020 AMENDED BUDGET	PRORATED AMENDED BUDGET (6 MONTHS)	ACTIVITY THRU 12/31/2019	Year-to- Date	BUDGET LESS FY 2020 ACTIVITY
Entity-wide										
Salaries & Wages	\$ 63,631	\$ 30,025	47.2%	\$ 59,922	50.1%	\$ 68,233	\$ 34,116	\$ 32,257	47.3%	\$ 1,859
Workforce Development	751	368	49.0%	794	46.3%	1,001	501	456	45.5%	45
Overtime	7,612	3,761	49.4%	7,554	49.8%	6,153	3,077	3,691	60.0%	(614)
Employee Benefits	23,656	12,481	52.8%	21,998	56.7%	22,957	11,479	12,697	55.3%	(1,218)
Transition Services	8,572	3,723	43.4%	8,322	44.7%	6,048	3,024	2,677	44.3%	347
Employee Benefits Fund	-	(1,242)	0.0%	-	0.0%	-	-	(756)	0.0%	756
Personnel Costs	<u>104,221</u>	<u>49,118</u>	47.1%	<u>98,589</u>	49.8%	<u>104,392</u>	<u>52,196</u>	<u>51,022</u>	48.9%	<u>1,174</u>
Electric	39,019	20,953	53.7%	39,103	53.6%	38,386	19,193	20,994	54.7%	(1,801)
Gas	6,631	2,700	40.7%	6,568	41.1%	6,451	3,225	2,597	40.3%	628
Sewage Service	2,491	1,036	41.6%	2,094	49.5%	1,847	923	996	54.0%	(73)
Water Service	3,648	2,085	57.2%	3,631	57.4%	3,658	1,829	1,651	45.1%	178
Utilities	<u>51,789</u>	<u>26,774</u>	51.7%	<u>51,396</u>	52.1%	<u>50,341</u>	<u>25,170</u>	<u>26,238</u>	52.1%	<u>(1,068)</u>
Chemicals	13,385	6,712	50.1%	13,276	50.6%	13,899	6,949	7,066	50.8%	(117)
Supplies & Other	36,226	14,231	39.3%	37,121	38.3%	37,263	18,631	16,890	45.3%	1,742
Contractual Services	100,856	53,815	53.4%	101,873	52.8%	107,012	53,506	50,055	46.8%	3,451
Capital Program Allocation	(3,356)	(1,571)	46.8%	(3,381)	46.5%	(3,515)	(1,758)	(1,442)	41.0%	(315)
Shared Services	(9,005)	(4,538)	50.4%	(7,139)	63.6%	(5,089)	(2,545)	(2,651)	52.1%	106
Unallocated Reserve	18,524	-	0.0%	-	0.0%	14,246	7,123	-	0.0%	7,123
Total Expenses	<u>\$ 312,642</u>	<u>\$ 144,541</u>	46.2%	<u>\$ 291,734</u>	49.5%	<u>\$ 318,548</u>	<u>\$ 159,274</u>	<u>\$ 147,178</u>	46.2%	<u>\$ 12,096</u>

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 December 31, 2019
(\$000)

	Water	Sewage Disposal	Total Business- type Activities	Comparative June 30, 2019
Assets				
Cash - unrestricted (a)	\$ 109,035	\$ 142,060	\$ 251,095	\$ 309,016
Cash - restricted (a)	90,251	113,799	204,050	261,999
Investments - unrestricted (a)	276,986	137,601	414,587	274,246
Investments - restricted (a)	82,052	126,015	208,067	185,831
Accounts Receivable	85,652	77,602	163,254	208,914
Due from (to) Other Funds (b)	(707)	707	-	2,890
Other Assets (c)	592,025	449,729	1,041,754	1,046,518
Cash Held FBO DWSD Advance (d)	-	4,714	4,714	
Capital Assets, net of Depreciation	1,356,476	2,278,847	3,635,323	3,747,784
Land	292,799	124,858	417,657	417,657
Construction Work in Process (e)	172,900	222,162	395,063	368,748
Total assets	3,057,470	3,678,095	6,735,564	6,823,603
Deferred Outflows (f)	91,800	174,703	266,503	273,596
Liabilities				
Liabilities - Short-Term (g)	137,228	169,582	306,810	321,270
Due to (from) Other Funds (b)	-	-	-	2,890
Other Liabilities (h)	2,707	6,275	8,982	9,097
Cash Held FBO DWSD (d)	3,611	-	3,611	2,807
Liabilities - Long-Term (i)	3,030,429	3,740,351	6,770,780	6,853,419
Total liabilities	3,173,975	3,916,208	7,090,182	7,189,483
Deferred Inflows (f)	58,374	52,556	110,930	108,541
Total net position (j)	\$ (83,079)	\$ (115,967)	\$ (199,045)	\$ (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 December 31, 2019 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 December 31, 2019.

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 December 31, 2019 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 December 2019 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 Six Months ended December 31, 2019
(\$000)**

	Water	Percent of Revenue	Sewage Disposal	Percent of Revenue	Total Business- type Activities	Comparative June 30, 2019
Revenue						
Wholesale customer charges	\$ 161,484	93.8%	\$ 134,205	57.2%	\$ 295,689	\$ 584,172
Local system charges	10,648	6.2%	92,904	39.6%	103,551	201,341
Industrial waste charges	-	0.0%	4,186	1.8%	4,186	9,106
Pollutant surcharges	-	0.0%	3,057	1.3%	3,057	5,933
Other revenues		0.0%	247	0.1%	247	528
Total Revenues	\$ 172,132	100%	\$ 234,599	100%	\$ 406,731	\$ 801,079
Operating expenses						
Operations and Maintenance	63,677	37.0%	84,387	36.0%	148,064	293,863
Depreciation	68,186	39.6%	80,577	34.3%	148,763	309,115
Total operating expenses	131,862	76.6%	164,964	70.3%	296,827	602,978
Operating income	40,270	23.4%	69,634	29.7%	109,904	198,101
Total Nonoperating (revenue) expense	46,467	27.0%	61,658	26.3%	108,125	220,170
Increase/(Decrease) in Net Position	(6,197)	-3.6%	7,976	3.4%	1,779	(22,070)
Net position (deficit), beginning of year	(76,882)		(123,943)		(200,825)	(178,755)
Net position (deficit), end of year	\$ (83,079)		\$ (115,967)		\$ (199,045)	\$ (200,825)

Totals may be off due to rounding

Water Fund

- ✓ The decrease in Water Fund Net Position is \$6.2 million.
- ✓ Wholesale water customer charges of \$161.5 million account for 93.8% of Water System revenues.
- ✓ Operating expenses of \$131.9 million represent 76.6% of total operating revenue. Depreciation is the largest operating expense at \$68.2 million or 51.7% of operating expense.
- ✓ Operating income after operating expenses (including depreciation) equals \$40.3 million or 23.4% of operating revenue.
- ✓ The largest category within nonoperating activities is bonded debt interest expense of \$44.6 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 \$8.0 million.
- ✓ Wholesale customer charges of \$134.2 million account for 57.2% 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 \$92.9 million account for 39.6% of total operating revenues. These are also billed at one-twelfth of the annual revenue requirement.
- ✓ Operating expenses of \$165.0 million represent 70.3% of total operating revenue. Depreciation is the largest operating expense at \$80.6 million or 48.8% of total operating expense.
- ✓ Operating income after operating expenses (including depreciation) equals \$69.6 million or 29.7% of operating revenue.
- ✓ The largest category within nonoperating activities is bonded debt interest expense of \$57.9 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 December 2019 Financial Report Binder. Explanatory notes follow this schedule.

**Table 3 – Supplemental Schedule of Operations & Maintenance Expenses
- All Funds Combined
For the Six Months ended December 31, 2019
(\$000)**

	Water	Percent of Total	Sewage Disposal	Percent of Total	Total Business- type Activities	Percent of Total
Operating expenses						
Personnel						
Salaries & Wages	11,685	18.4%	23,705	28.1%	35,390	23.9%
Overtime	2,179	3.4%	1,512	1.8%	3,691	2.5%
Benefits	7,322	11.5%	4,619	5.5%	11,941	8.1%
Total Personnel	\$ 21,186	33.3%	\$ 29,836	35.4%	\$ 51,022	34.5%
Utilities						
Electric	13,662	21.5%	7,332	8.7%	20,994	14.2%
Gas	407	0.6%	2,190	2.6%	2,597	1.8%
Sewage	154	0.2%	843	1.0%	996	0.7%
Water	1	0.0%	1,650	2.0%	1,651	1.1%
Total Utilities	\$ 14,222	22.3%	\$ 12,015	14.2%	\$ 26,238	17.7%
Chemicals	2,668	4.2%	4,397	5.2%	7,066	4.8%
Supplies and other	5,886	9.2%	11,005	13.0%	16,890	11.4%
Contractual services	23,141	36.3%	27,801	32.9%	50,942	34.4%
Capital Adjustment	-	0.0%	-	0.0%	-	0.0%
Capital program allocation	(942)	-1.5%	(500)	-0.6%	(1,442)	-1.0%
Shared services allocation	(2,485)	-3.9%	(166)	-0.2%	(2,651)	-1.8%
Operations and Maintenance Expenses	\$ 63,677	100.0%	\$ 84,387	100.0%	\$ 148,064	100.0%

Totals may be off due to rounding.

- ✓ Core expenses for water and sewage disposal systems are utilities (17.7% of total O&M expenses) and chemicals (4.8%).
- ✓ Personnel costs (34.5% 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 (34.4%) includes:
 - Water System costs of sludge removal and disposal services at the Northeast, Southwest and Springwells Water Treatment Plants (approximately \$3.6 million);
 - Sewage Disposal System costs for the operation and maintenance of the biosolids dryer facility (approximately \$7.5 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 Six Months ended December 31, 2019
(\$000)**

	Water	Sewage Disposal	Total Business-type Activities	Comparative June 30, 2019
Nonoperating (Revenue)/Expense				
Interest income contractual obligation	\$ (11,176)	\$ (9,097)	\$ (20,273)	\$ (40,673)
Interest income DWSD Shortfall	-	(731)	(731)	(1,104)
Investment earnings	(4,009)	(4,170)	(8,179)	(26,518)
Other nonoperating revenue	(11)	(6)	(17)	(420)
Interest expense				-
Bonded debt	55,753	66,998	122,751	250,966
Lease obligation	8,758	10,704	19,462	39,264
Other obligations	2,428	786	3,215	6,368
Total interest expense	66,939	78,489	145,428	296,597
Other non-capital expense	-	-	-	-
Memorandum of Understanding	-	-	-	6,527
Capital Contribution	-	(5,960)	(5,960)	-
Amortization, issuance costs, debt	(8,068)	927	(7,141)	(3,995)
Amortization, raw water rights	1,783	-	1,783	3,567
(Gain) loss on disposal of capital assets	(1)	815	814	(81)
Loss on impairment of capital assets	-	-	-	1,025
Water Residential Assistance Program	1,010	1,392	2,402	2,024
Legacy pension expense	-	-	-	(16,778)
Total Nonoperating (Revenue)/Expense	\$ 46,467	\$ 61,658	\$ 108,125	\$ 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.

FY 2019 Items of note:

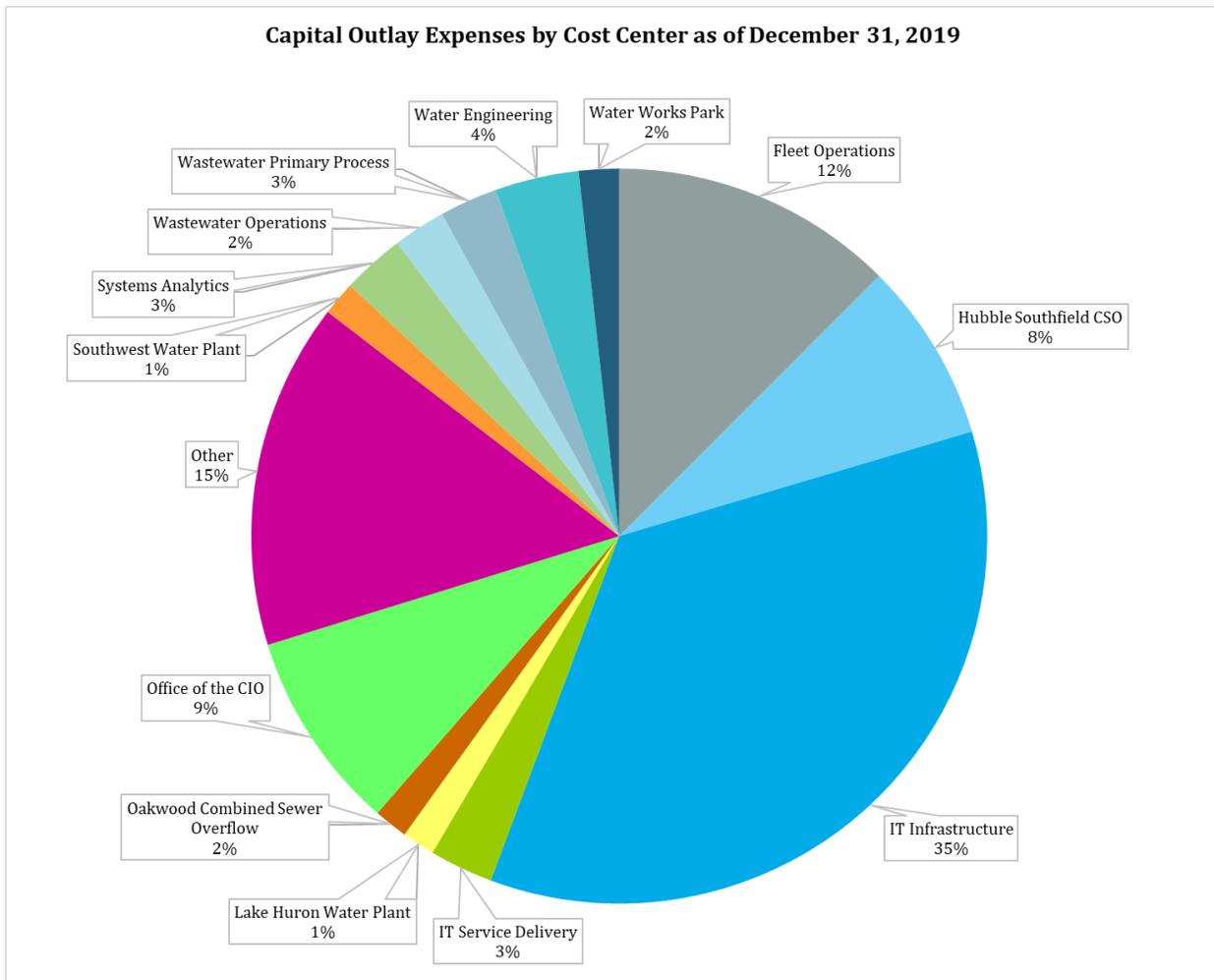
- ✓ Legacy Pension expense is reflected as income due to changes in actuarial assumptions and rates from the June 30, 2018 City of Detroit General Retirement System Component II audited financial statement.
- ✓ Sewer Other Non-operating expense includes the 2018 MOU Item 8a from June 27, 2018 for a final 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 December 31, 2019, total capital outlay spend is \$6.8 million. Following this chart is a sample list of projects and purchases from the total spend of \$6.8 million:



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

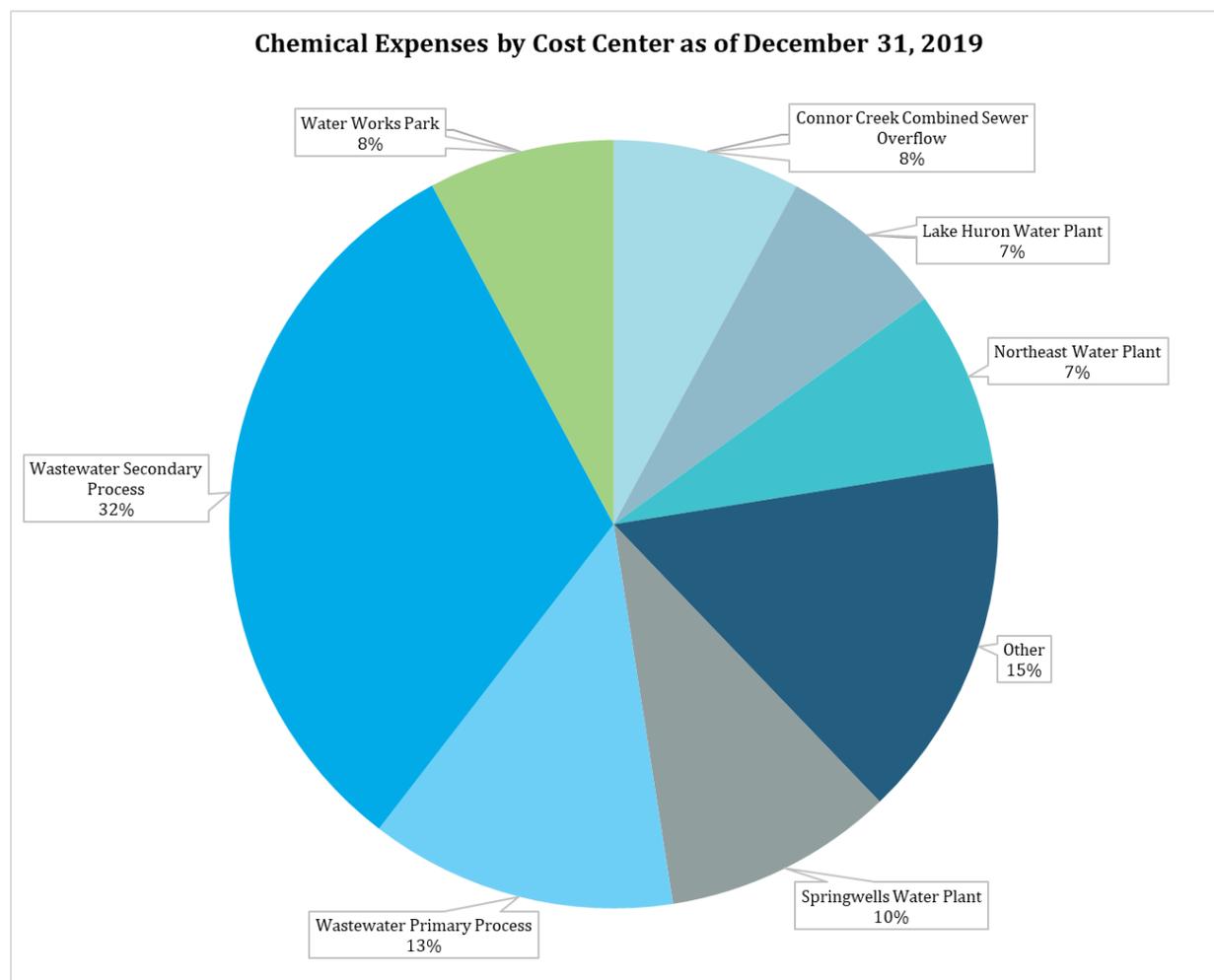
Water Operations: Trucks (\$225k); Water Works Park South garage renovation (\$170k); various water location building improvements (\$80k); Turbid meters (\$53k) and skid steer loader (\$88k) under ‘other’ for the Southwest Water Plant.

Wastewater Operations: Accusonic flow meters (\$540k); transformer C structure at Water Resource Recovery Facility (\$99k); chemical feed pump (\$96k); Flygt pump (\$78k); water heater for Scum building (\$76k); HVAC controls upgrade (\$52k); boilers (\$50k); Rotork actuators (\$49k); belt cooker (\$45k) and loaders (\$44k).

Centralized & Administrative Facilities: Low voltage wiring services (\$1.8m); IT & 17th floor renovation and furniture (\$583k); trucks and vehicles (\$527k); IT software (\$310k); transmitters (\$118k); IT premium hardware support (\$74k); Sewer meter support (\$66k); IT computers (\$61k); 2nd floor furniture at CSF (\$49k); 'Other' category expenses include: bathroom renovation (\$75k) for the Logistics and Materials team.

Chart 2 – Chemical Spend – Water and Sewer System Combined

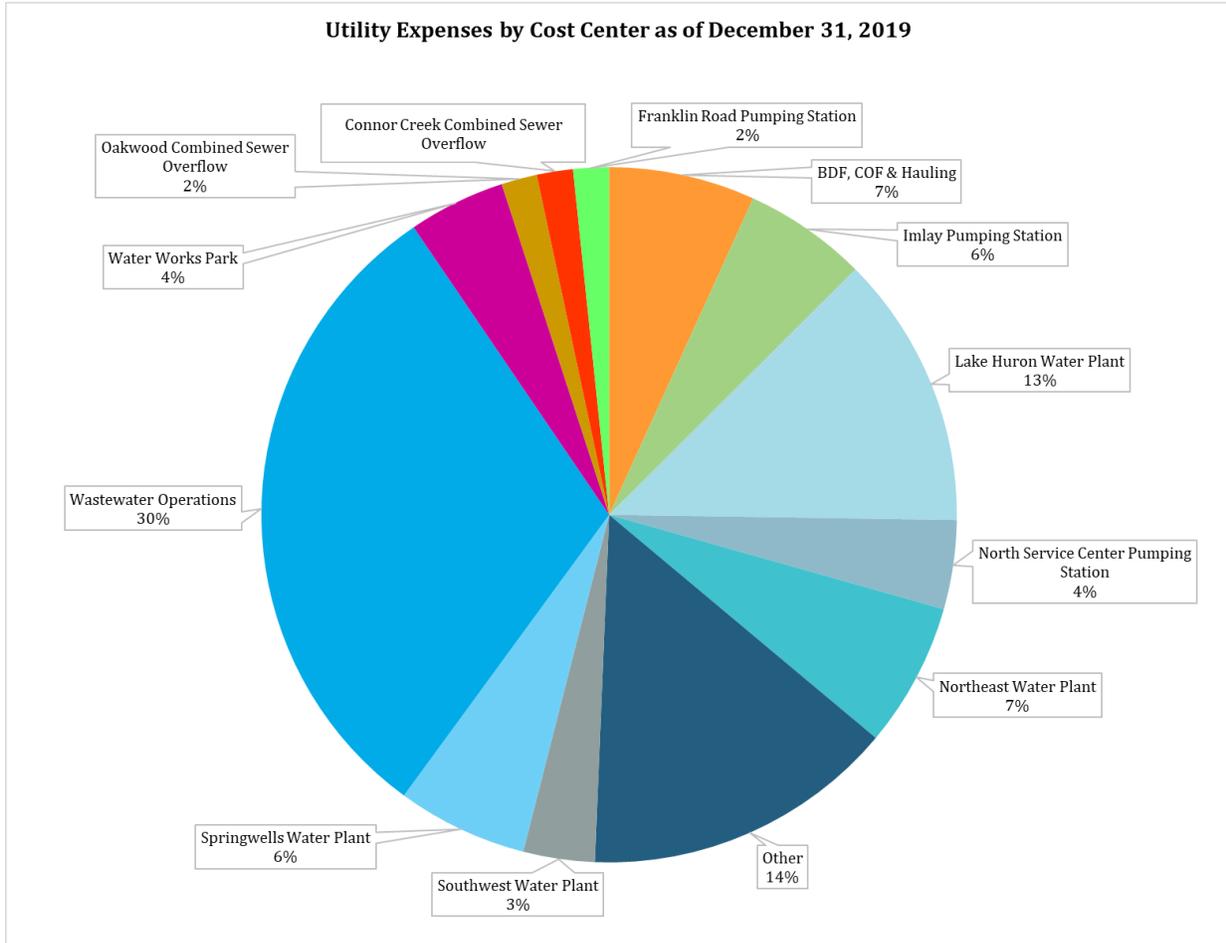
Chemical spend is \$7.0 million through December 31, 2019. The allocation is shown in the chart below and remains consistent with prior periods.



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%.

Chart 3 – Utility Spend – Water and Sewer System Combined

Utility spend is \$26.2 million through December 31, 2019. 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.

There were no changes in accounts from November 2019.

Chart 1 - Bank Reconciliation Completion Status

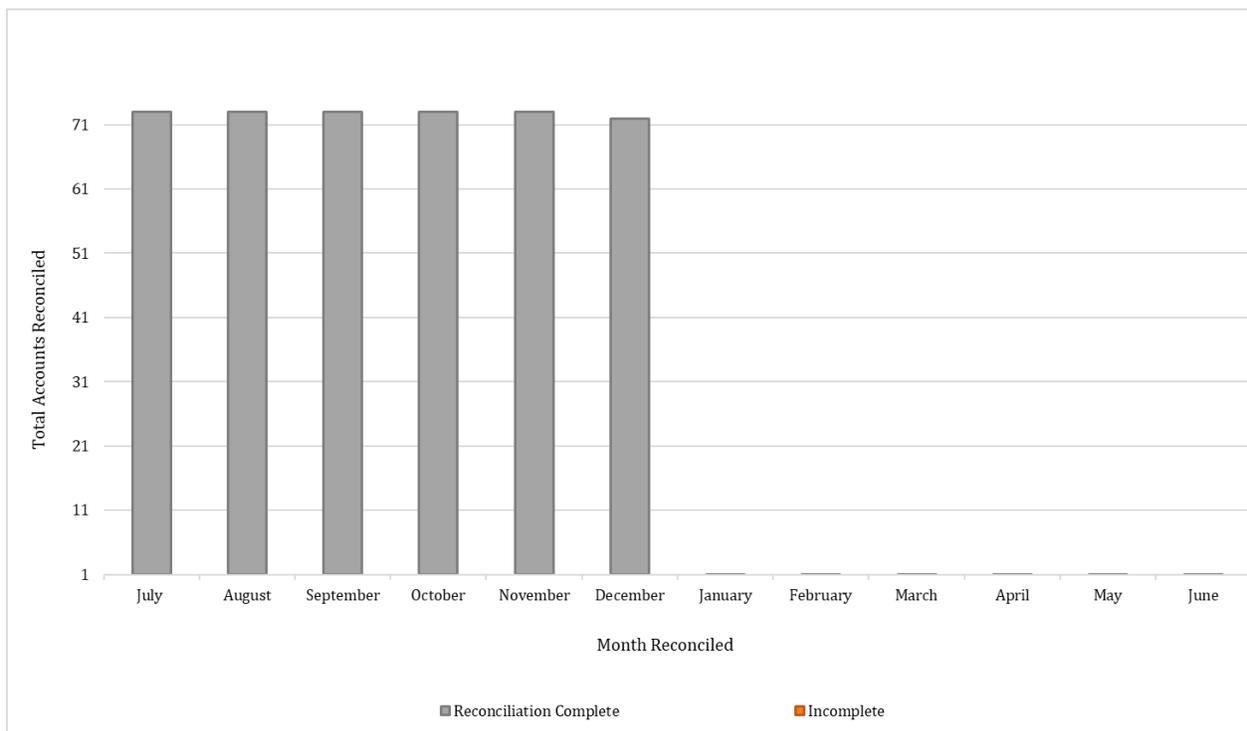


Table 1 - Fiscal Year 2020 GL Cash Account Rollforward

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 December 31, 2019	<u><u>72</u></u>

All AP checks are being processed from a new checking account. The old AP checking account was closed in December 2019 after all checks had finally cleared.

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 Five Months Ended December 31, 2019**

	Water	Sewer	Total
Net Revenue Requirement Budget Variance (a)	\$ 7,978	\$ 6,362	\$ 14,340
Budgetary categories adjustments to financial reporting basis			
Pension delayed accounting election adjustments			
Current year pension transfers/payments recorded as deferral (c)	5,720	10,238	15,958
Prior year pension contribution accounted for in current year (d)	-	-	-
Administrative prepaid adjustment (e)	-	-	-
Debt service (f)	20,603	46,596	67,199
Accelerated pension B&C notes obligation portion (g)	88	199	287
Lease payment (h)	2,492	3,046	5,538
WRAP (i)	(161)	(190)	(351)
DWSD short term allocation (j)	-	5,337	5,337
Operating Reserve Deposit (j)	1,988	-	1,988
Improvement & Extension Fund (j)	14,925	11,983	26,908
Nonbudgeted financial reporting categories adjustments			
Depreciation (k)	(68,186)	(80,577)	(148,763)
Amortization (k)	6,285	(927)	5,358
Other nonoperating income (k)	10	4	14
Other nonoperating expense (k)	-	-	-
Gain(loss) on disposal of capital assets (k)	1	(815)	(814)
Raw water rights (l)	1,248	-	1,248
Investment earnings construction fund (m)	812	760	1,572
Capital contribution (n)	-	5,960	5,960
Net Position Increase/(Decrease) per Financial Statements (b)	\$ (6,197)	\$ 7,976	\$ 1,779

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 \$748 thousand 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.

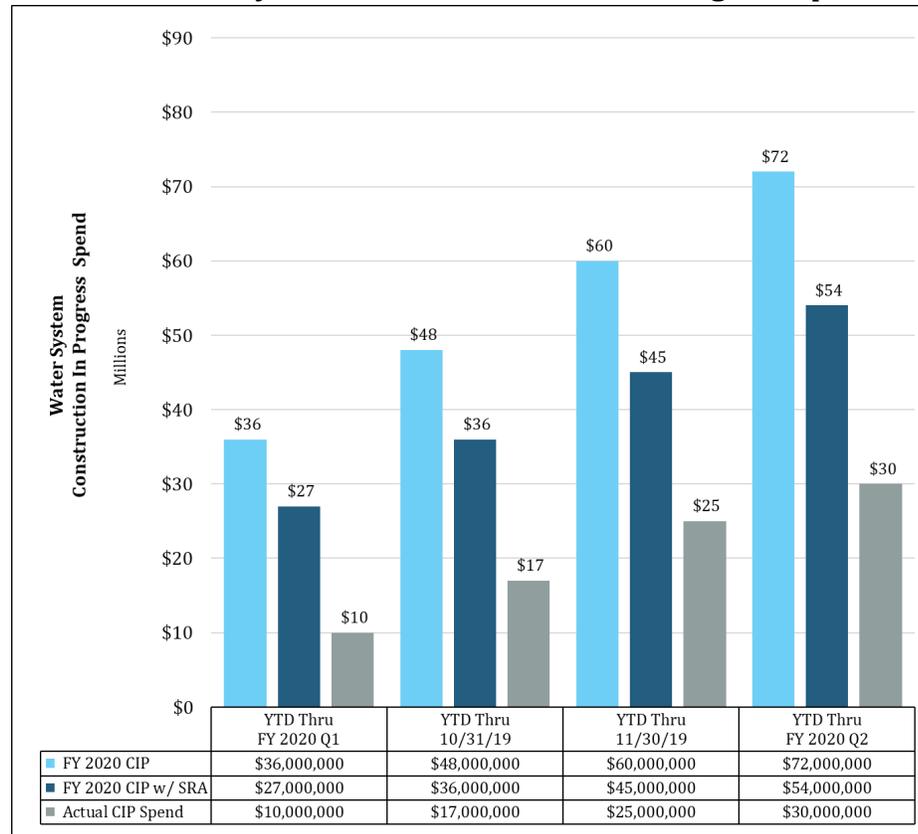
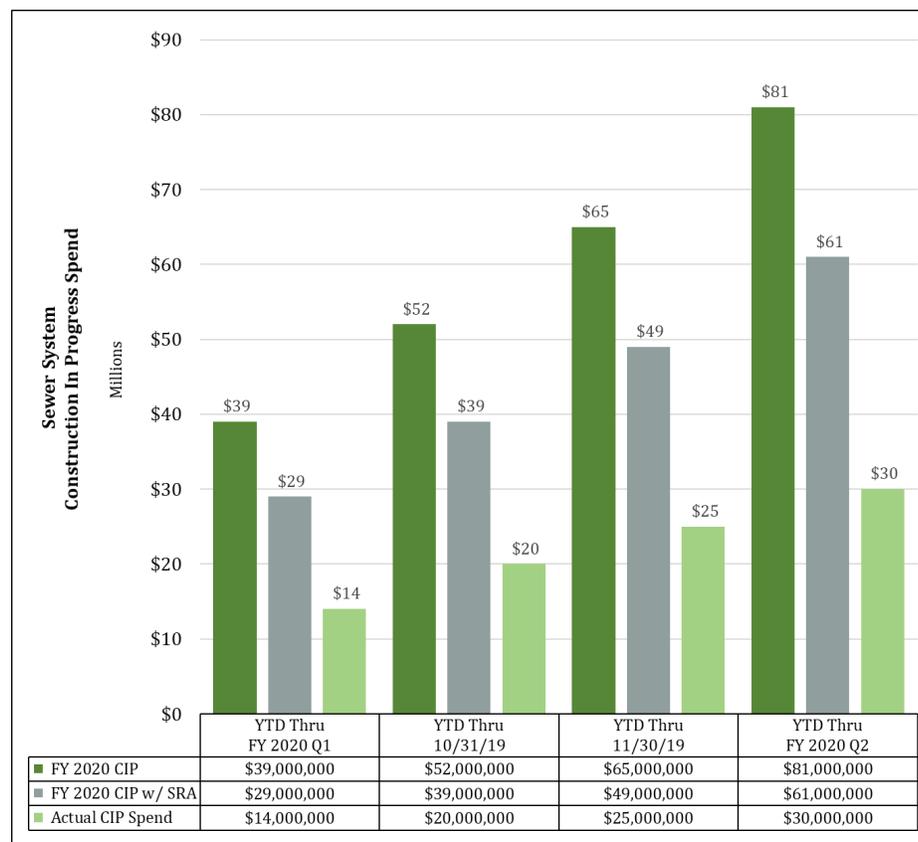
This report presents quarterly and monthly CWIP spending against the prorated CIP in total and the CIP adjusted for the SRA. The prorated CIP is calculated by dividing the total fiscal year 2020 board-approved CIP plan by twelve equal months. It should be noted that for operational purposes, GLWA utilizes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

Chart 1 – Water System Construction in Work in Progress Spend

As of December 2019, the Water system incurred nearly \$30 million of construction costs to date. This is 42% of the fiscal year 2020 prorated CIP through December and 56% of the financial plan. 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 December 2019, the Sewer system incurred nearly \$30 million of construction costs to date. This is 37% of the fiscal year 2020 prorated CIP through December and 49% of the financial plan. 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 December 2, 2019. MBO transfers for water totaling \$75.1 million have been transferred to GLWA accounts.

Table 2 - GLWA FY 2020 Sewer MBO Transfers reflects the required transfers for FY 2020 completed through December 2, 2019. MBO transfers for sewer totaling \$107.7 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							
	<u>Operations & Maintenance</u>	<u>Pension Sub Account</u>	<u>Pension Obligation</u>	<u>WRAP</u>	<u>Budget Stabilization (For Benefit of DWSD)</u>	<u>Extraordinary Repair & Replacement (ER&R)</u>	<u>Total Water</u>
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
Total FY 2020	\$65,745,252	\$3,024,000	\$5,347,848	\$990,402	\$0	\$0	\$75,107,502

Table 2 – GLWA FY 2020 Sewer MBO Transfers

SEWER							
	<u>Operations & Maintenance</u>	<u>Pension Sub Account</u>	<u>Pension Obligation</u>	<u>WRAP</u>	<u>Budget Stabilization (For Benefit of DWSD)</u>	<u>Extraordinary Repair & Replacement (ER&R)</u>	<u>Total Sewer</u>
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
Total FY 2020	\$93,528,600	\$5,412,000	\$7,343,754	\$1,443,648	\$0	\$0	\$107,728,002

Table 3 – GLWA MBO Transfer History

GLWA MBO Transfer History							
WATER							
	<u>Operations & Maintenance</u>	<u>Pension Sub Account</u>	<u>Pension Obligation</u>	<u>WRAP</u>	<u>Budget Stabilization (For Benefit of DWSD)</u>	<u>Extraordinary Repair & Replacement (ER&R)</u>	<u>Total Water</u>
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 (6 months)	65,745,252	3,024,000	5,347,848	990,402	-	-	75,107,502
Life to Date	\$491,802,060	\$27,194,300	\$47,333,640	\$9,271,302	\$2,686,900	\$606,000	\$578,894,202
SEWER							
	<u>Operations & Maintenance</u>	<u>Pension Sub Account</u>	<u>Pension Obligation</u>	<u>WRAP</u>	<u>Budget Stabilization (For Benefit of DWSD)</u>	<u>Extraordinary Repair & Replacement (ER&R)</u>	<u>Total Sewer</u>
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 (6 months)	93,528,600	5,412,000	7,343,754	1,443,648	-	-	107,728,002
Life to Date	\$752,411,792	\$48,736,800	\$64,771,346	\$12,253,244	\$8,246,100	\$779,600	\$887,198,882

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 December 2, 2019. MBO transfers for Water totaling \$28.9 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 December 2, 2019. MBO transfers for Sewer totaling \$46.3 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.

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
Total FY 2020	\$ 17,331,198	\$ 2,136,000	\$ 9,475,998	\$ 28,943,196

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
Total FY 2020	\$ 33,671,750	\$ 1,428,000	\$ 11,233,650	\$ 46,333,400

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 (6 months)				
MBO/Lease Requirement	17,331,198	2,136,000	11,250,000	30,717,198
Offset to Debt Service	-	-	(1,774,002)	(1,774,002)
Net MBO Transfer	17,331,198	2,136,000	9,475,998	28,943,196
Life-to-Date				
MBO/Lease Requirement	147,657,202	19,205,100	101,250,000	268,112,302
Offset to Debt Service	-	-	(9,948,102)	(9,948,102)
Total Water	\$ 147,657,202	\$ 19,205,100	\$ 91,301,898	\$ 258,164,200
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 (6 months)				
MBO/Lease Requirement	33,671,750	1,428,000	13,750,000	48,849,750
Offset to Debt Service	-	-	(2,516,350)	(2,516,350)
Total MBO Transfer	33,671,750	1,428,000	11,233,650	46,333,400
Life-to-Date				
MBO/Lease Requirement	212,267,562	12,863,800	123,750,000	348,881,362
Offset to Debt Service	-	-	(36,089,514)	(36,089,514)
Total Sewer	\$ 212,267,562	\$ 12,863,800	\$ 87,660,486	\$ 312,791,848

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

This report includes the following:

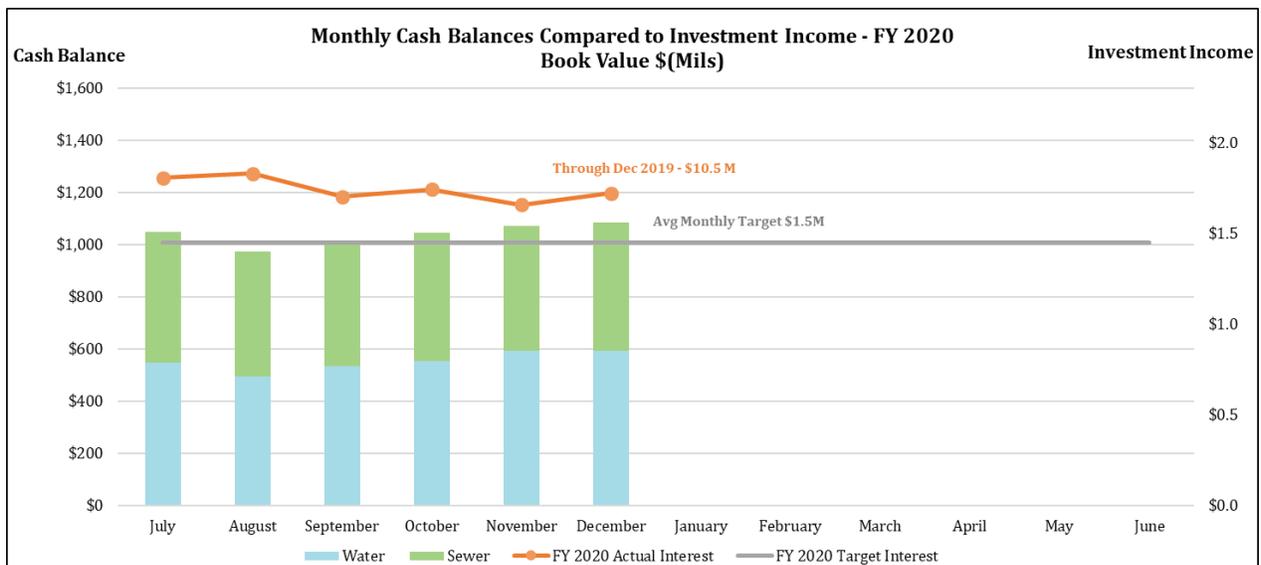
1. Monthly Cash Balances Compared to Investment Income
2. Cash Balance Detail

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 through December 2019 of \$10.5 million is 60% of the FY 2020 target of \$17.4 million. As the market environment fluctuates, GLWA will continue to monitor the FY 2020 target.

Chart 1 – Monthly Cash Balances Compared to Investment Income – Through December 2019



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

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

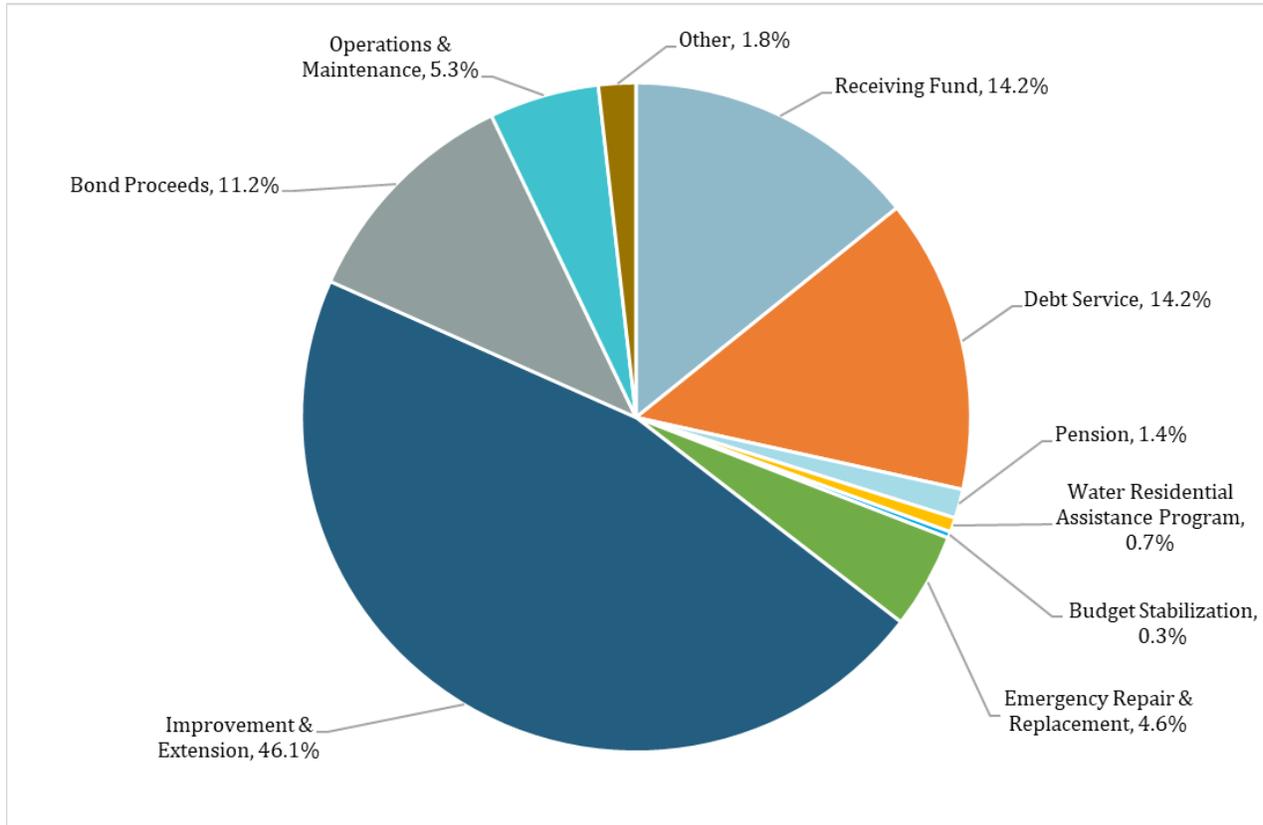
Funds Held Outside Trust:

- 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 December 31, 2019 - Shows the allocation of the balance among the different categories defined in the section above. The total cash balance for Water Funds as of December 31, 2019 is \$592 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 December 31, 2019

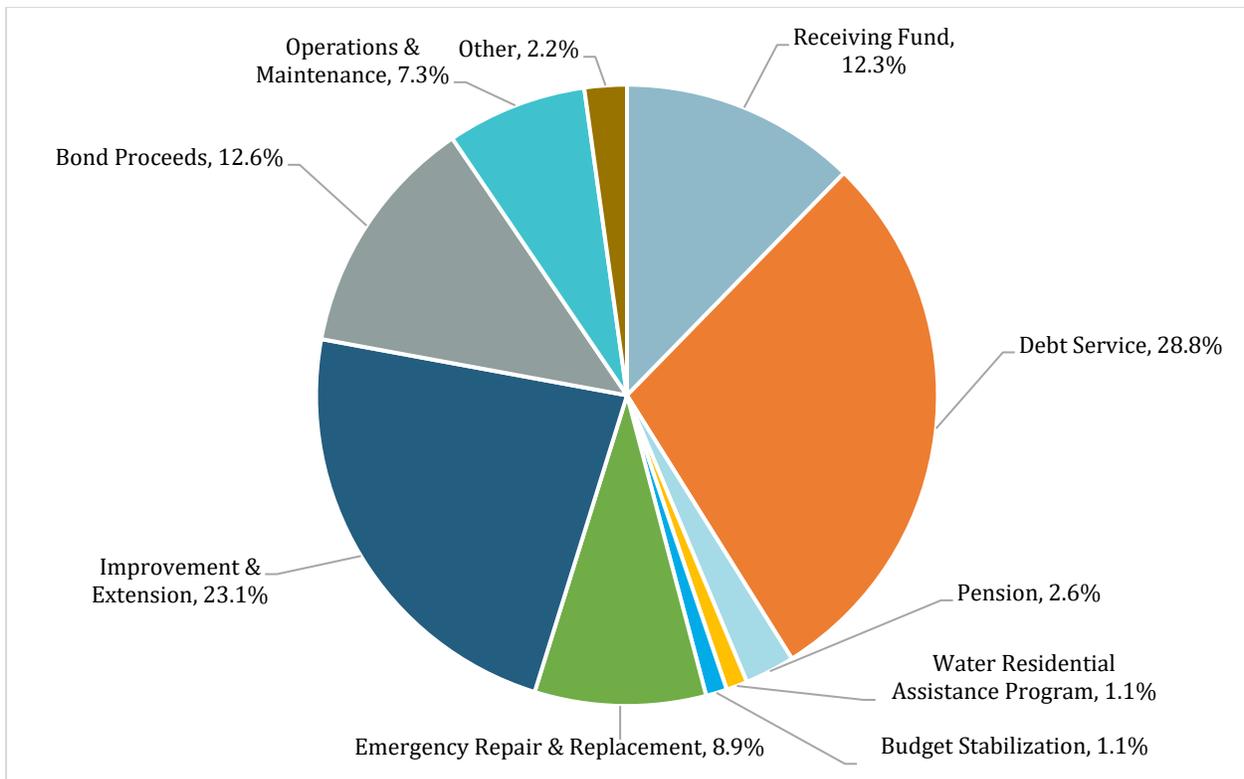


Note: Due to rounding totals may not equal 100%.

Chart 3 – Cash Balances - Sewer Funds as of December 31, 2019 - Shows the allocation of the balance among the different funds defined in the section above. The total cash balance for Sewer Funds as of December 31, 2019 is \$493 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 December 31, 2019



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 December 31, 2019, the DWSD usage was at 92.48% of the budget and billed revenue was at 98.85% 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.

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	8,828,511	38.56	(17,885)	(331,481)
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					
February	225,150	8,294,177	36.84					
March	222,601	8,159,386	36.65					
April	215,049	8,120,879	37.76					
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	1,374,192	52,501,718	38.21	(111,675)	(608,122)
Subtotals ytd	1,485,867	53,109,840	35.74	1,374,192	52,501,718	38.21	(111,675)	(608,122)
Achievement of Budget				92.48%	98.85%			

(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
January	8,158,817	8,066,448	92,369	1.15%
February	7,927,299	6,432,245	1,495,054	23.24%
March	8,707,578	8,280,635	426,943	5.16%
April	8,475,657	9,226,675	(751,018)	-8.14%
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%
Rolling, 12-Month Total	99,900,820	99,485,081		
Rolling, 12-Month Average	8,325,068	8,290,423		

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 December 31, 2019, the DWSD usage was at 94.33% of the budget and billed revenue was at 98.72% 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.

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	28,049,587	(6,928)	(485,833)
August	258,984	28,327,270	246,989	28,076,624	(11,995)	(250,646)
September	255,527	26,788,442	215,119	26,430,692	(40,408)	(357,750)
October	227,141	26,444,548	238,202	27,549,768	11,061	1,105,220
November	211,617	25,759,684	188,779	24,726,066	(22,838)	(1,033,618)
December	195,192	25,905,017	186,917	24,853,335	(8,275)	(1,051,682)
January	197,099	26,341,264				
February	206,164	26,312,394				
March	200,672	26,467,728				
April	204,606	25,894,612				
May	203,480	27,185,600				
June	218,340	27,376,921				
Total	2,630,560	321,338,900	1,320,816	159,686,072	(79,383)	(2,074,309)
<i>Subtotals ytd</i>	<i>1,400,199</i>	<i>161,760,381</i>	<i>1,320,816</i>	<i>159,686,072</i>	<i>(79,383)</i>	<i>(2,074,309)</i>
<i>Achievement of Budget/Goal</i>			<i>94.33%</i>	<i>98.72%</i>		

(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
January	21,140,835	18,308,458	2,832,377	15.47%
February	20,758,852	17,495,563	3,263,289	18.65%
March	22,111,691	23,015,525	(903,834)	-3.93%
April	20,930,511	16,159,844	4,770,667	29.52%
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%
Rolling 12-Month Total	264,020,890	251,764,564		
Rolling, 12-Month Average	22,001,741	20,980,380		

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 December 31, 2019 with comparative totals from December 31, 2018.

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

Sales Class	# of Accounts	Avg. Balance	Current	> 30 Days	> 60 Days	> 180 Days	Accounts Receivable Balance
Residential	286,984	\$ 338.01	\$ 13,625,950 14.0%	\$ 7,406,461 7.6%	\$ 18,733,875 19.3%	\$ 57,236,064 59.0%	\$ 97,002,349 100.0%
Commercial	28,484	1,452.70	8,535,389 20.6%	2,948,723 7.1%	7,931,291 19.2%	21,963,259 53.1%	41,378,663 100.0%
Industrial	4,838	4,051.53	4,599,582 23.5%	1,540,408 7.9%	2,833,221 14.5%	10,628,094 54.2%	19,601,305 100.0%
Tax Exempt Entities	7,997	1,775.95	1,813,757 12.8%	1,146,317 8.1%	2,362,633 16.6%	8,879,571 62.5%	14,202,278 100.0%
Government Entities	3,118	1,975.81	1,125,669 18.3%	324,638 5.3%	1,041,259 16.9%	3,669,002 59.6%	6,160,568 100.0%
Subtotal - Active Accounts	331,421	\$ 538.12	\$ 29,700,348 16.7%	\$ 13,366,547 7.5%	\$ 32,902,279 18.4%	\$ 102,375,990 57.4%	\$ 178,345,163 100.0%
Inactive Accounts	274,885	87.68	120,499 0.5%	213,935 0.9%	(115,660) (0.5%)	23,884,153 99.1%	24,102,928 100.0%
Total	606,306	\$ 333.90	\$ 29,820,847 14.7%	\$ 13,580,482 6.7%	\$ 32,786,619 16.2%	\$ 126,260,143 62.4%	\$ 202,448,091 100.0%
<i>% of Total A/R</i>							
Water Fund	230,913	171.26	\$ 6,783,000	\$ 2,949,000	\$ 4,779,000	\$ 25,035,000	\$ 39,546,000
Sewer Fund	288,653	564.35	\$ 23,037,000	\$ 10,632,000	\$ 28,007,000	\$ 101,225,000	\$ 162,902,000
Total December 31, 2019	606,306	333.90	\$ 29,821,000	\$ 13,580,000	\$ 32,787,000	\$ 126,260,000	\$ 202,448,000
Water Fund- Allowance							\$ (28,136,000)
Sewer Fund- Allowance							\$ (98,640,000)
Total December 31, 2019 Bad Debt Allowance							\$ (126,776,000)
Comparative Totals from December 31, 2018	585,755	322.66	\$ 30,802,000	\$ 14,012,000	\$ 34,098,000	\$ 110,085,000	\$ 188,998,000

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	<u>4</u>
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 December 31, 2019, the billed usage was at 94.64% of budget and billed revenue at 97.76% 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.

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 Revenue	Volume	Revenue	Unit Revenue	Volume	Revenue
	Mcf	\$	\$/Mcf	Mcf	\$	\$/Mcf	Mcf	\$
1 July	1,777,138	32,544,400	18.31	1,545,631	30,356,570	19.64	(231,507)	(2,187,830)
2 August	1,549,587	30,383,100	19.61	1,554,426	30,501,606	19.62	4,839	118,506
3 September	1,368,496	28,270,400	20.66	1,257,111	27,278,750	21.70	(111,385)	(991,650)
4 October	1,066,653	25,351,200	23.77	1,026,086	25,007,145	24.37	(40,567)	(344,055)
5 November	917,034	24,049,100	26.22	905,016	23,933,012	26.44	(12,018)	(116,088)
6 December	1,004,420	24,714,000	24.61	983,589	24,535,948	24.95	(20,831)	(178,052)
7 January	1,018,192	24,861,000	24.42					
8 February	893,007	23,780,800	26.63					
9 March	1,008,766	24,753,300	24.54					
10 April	948,751	24,262,000	25.57					
11 May	1,073,966	25,549,300	23.79					
12 June	1,383,200	28,595,300	20.67					
Total	14,009,210	317,113,900	22.64	7,271,859	161,613,031	22.22	(411,469)	(3,699,169)
<i>Subtotals ytd</i>	<i>7,683,328</i>	<i>165,312,200</i>	<i>21.52</i>	<i>7,271,859</i>	<i>161,613,031</i>	<i>22.22</i>	<i>(411,469)</i>	<i>(3,699,169)</i>
<i>Achievement of Budget</i>				<i>94.64%</i>	<i>97.76%</i>			

(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
January	23,430,974	32,002,334	(8,571,360)	-26.78%
February	26,147,082	21,352,903	4,794,179	22.45%
March	24,967,335	27,715,696	(2,748,361)	-9.92%
April	23,045,654	18,489,754	4,555,900	24.64%
May	20,755,103	30,447,581	(9,692,478)	-31.83%
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%
Rolling 12-Month Total	302,705,116	316,491,398		
Rolling, 12-Month Average	25,225,426	26,374,283		

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	<u>7</u>
Total	<u><u>18</u></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 December 31, 2019, the billed revenue is at 99.72% of budget.

Activity to date has been adjusted to reflect the results of the March 2019 Oakland Macomb Interceptor Drainage District contract amendment with terms effective July 1, 2019.

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.

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	22,385,833	N/A	22,323,183	N/A	(62,650.00)
August	N/A	22,385,833	N/A	22,323,183	N/A	(62,650.00)
September	N/A	22,385,833	N/A	22,323,183	N/A	(62,650.00)
October	N/A	22,385,833	N/A	22,323,183	N/A	(62,650.00)
November	N/A	22,385,833	N/A	22,323,183	N/A	(62,650.00)
December	N/A	22,385,833	N/A	22,323,183	N/A	(62,650.00)
January	N/A	22,385,833	N/A		N/A	
February	N/A	22,385,833	N/A		N/A	
March	N/A	22,385,833	N/A		N/A	
April	N/A	22,385,833	N/A		N/A	
May	N/A	22,385,833	N/A		N/A	
June	N/A	22,385,833	N/A		N/A	
Total		268,629,996		133,939,098		(375,900)
<i>Subtotals ytd</i>		<i>134,314,998</i>		<i>133,939,098</i>		<i>(375,900)</i>
<i>Achievement of Budget</i>				<i>99.72%</i>		

(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
January	26,874,927	22,057,972	4,816,955	21.84%
February	13,895,100	30,280,800	(16,385,700)	-54.11%
March	22,388,600	15,552,000	6,836,600	43.96%
April	23,203,703	27,812,417	(4,608,714)	-16.57%
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%
Rolling 12-Month Total	278,756,326	276,271,006		
Rolling, 12-Month Average	23,229,694	23,022,584		

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 December 31, 2019, Highland Park had a delinquent balance of \$43.3 million, including \$33.6 million for wastewater treatment services, \$1.7 million for industrial waste control services, and \$8.0 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 December 31, 2019. 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
January 31, 2019 Balance	6,853,926	31,629,183	1,655,435	40,138,544
February 2019 Billing	98,898	467,900	3,932	570,731
February 2019 Payments	-	-	-	-
February 28, 2019 Balance	6,952,824	32,097,083	1,659,368	40,709,275
March 2019 Billing	98,353	467,900	3,881	570,134
March 2019 Payments	-	-	-	-
March 31, 2019 Balance	7,051,177	32,564,983	1,663,248	41,279,409
April 2019 Billing	99,879	467,900	4,101	571,880
April 2019 Payments	-	(1,089,003)	-	(1,089,003)
April 30, 2019 Balance	7,151,056	31,943,880	1,667,350	40,762,286
May 2019 Billing	98,118	467,900	3,963	569,981
May 2019 Payments	-	-	-	-
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	7,455,747	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	7,562,385	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	7,670,392	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

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 December 31, 2019.

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. The small past due balance for Water is due to a payment not received from the City of Dearborn until January 10, 2020.

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). Credits for billed services are pending receipt of a final agreement from Wayne County to effectuate a transfer retroactive to July 1, 2018.

Table 6 - Wholesale Accounts Receivable Aging Report Summary

	Total	Current	46-74 Days	75-104 Days	>105 Days
Water	\$ 39,561,082.94	\$ 30,630,285.66	\$ 1,260,405.87	\$ 108,007.06	\$ 7,562,384.35
Sewer	\$ 40,466,286.23	\$ 7,292,199.50	\$ 472,500.00	\$ 472,500.00	\$ 32,229,086.73
IWC	\$ 3,631,210.22	\$ 668,162.50	\$ 72,850.83	\$ -	\$ 2,890,196.89
Pollutant Surcharge	\$ 820,734.45	\$ 684,105.38	\$ 74,227.45	\$ 13,518.95	\$ 48,882.67
Total	\$ 84,479,313.84	\$ 39,274,753.04	\$ 1,879,984.15	\$ 594,026.01	\$ 42,730,550.64
	100.00%	46.49%	2.23%	0.70%	50.58%

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

	Total	Current	46-74 Days	75-104 Days	>105 Days
Water	\$ 31,583,764.87	\$ 30,430,781.42	\$ 1,152,983.45	\$ -	\$ -
Sewer	\$ 6,819,699.50	\$ 6,819,699.50	\$ -	\$ -	\$ -
IWC	\$ 1,932,081.97	\$ 660,369.91	\$ 68,918.20	\$ -	\$ 1,202,793.86
Pollutant Surcharge	\$ 820,734.45	\$ 684,105.38	\$ 74,227.45	\$ 13,518.95	\$ 48,882.67
Total	\$ 41,156,280.79	\$ 38,594,956.21	\$ 1,296,129.10	\$ 13,518.95	\$ 1,251,676.53
	100.00%	93.78%	3.15%	0.03%	3.04%

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

	Total	Current	46-74 Days	75-104 Days	>105 Days
Water	\$ 31,583,764.87	\$ 30,430,781.42	\$ 1,152,983.45	\$ -	\$ -
Sewer	\$ 6,819,699.50	\$ 6,819,699.50	\$ -	\$ -	\$ -
IWC	\$ 625,550.84	\$ 591,211.73	\$ 34,339.11	\$ -	\$ -
Pollutant Surcharge	\$ 820,734.45	\$ 684,105.38	\$ 74,227.45	\$ 13,518.95	\$ 48,882.67
Total	\$ 39,849,749.66	\$ 38,525,798.03	\$ 1,261,550.01	\$ 13,518.95	\$ 48,882.67
	100.00%	96.68%	3.17%	0.03%	0.12%

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 six months of activity to date.

Water fund activity exceeded required MBO disbursements by 16% through December 31, 2019 with a historical ratio of cash receipts exceeding MBO disbursements by 15% since January 1, 2016.

Sewer fund cash receipts exceeded disbursements by 19% through December 31, 2019 with a historical ratio of cash receipts exceeding MBO disbursements by 6% since January 1, 2016. Strong receipts in December was due in part to a one-time capital contribution of \$11.9 million by the Oakland Macomb Interceptor Drainage District as part of a recent contract amendment.

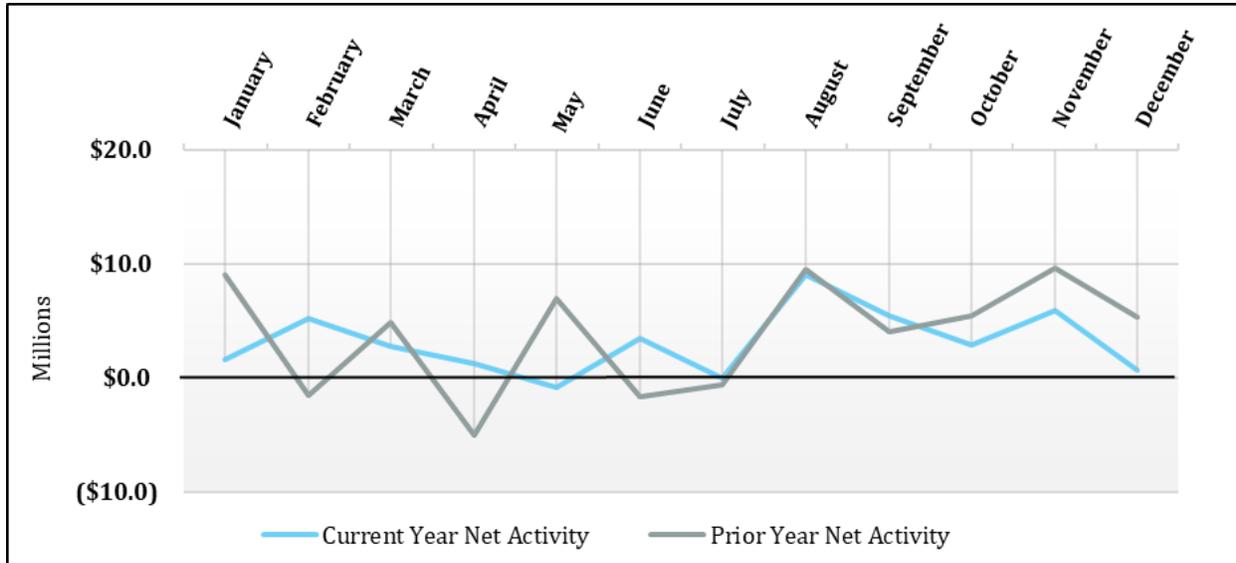
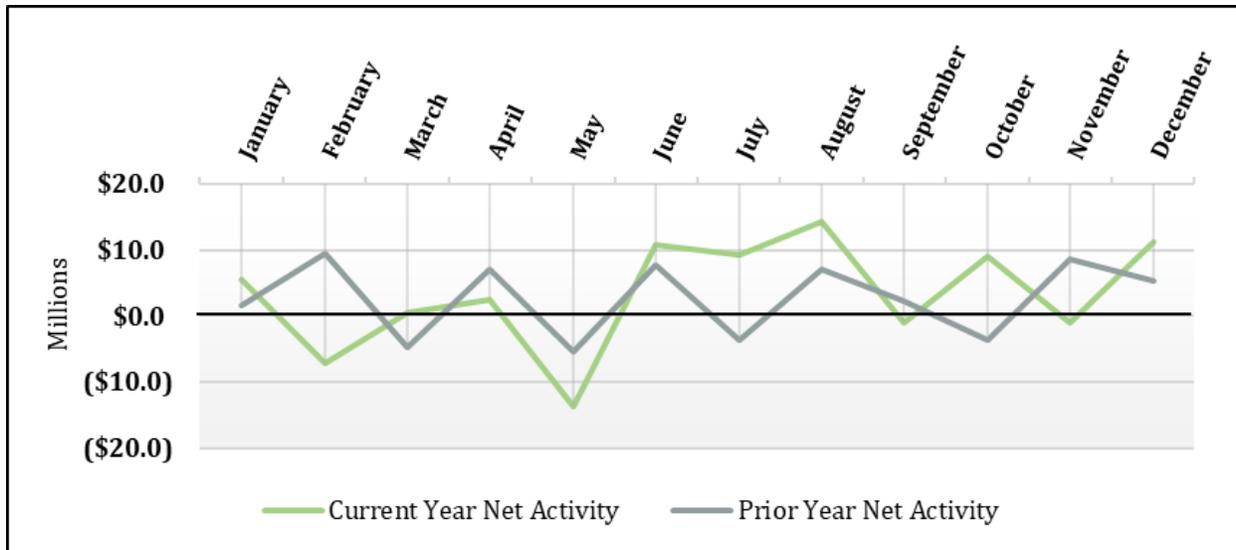
Chart 1 – GLWA 12-Month Net Receipts – Water outlines monthly cash receipt trends across two points of reference for the regional water system—current year and prior year. The black line at the zero highlights the minimum goal for net receipts.

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.

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

	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020 to Date	Life-to-Date Total
Water						
1 Receipts	\$ 149,688,711	\$ 352,941,909	\$ 338,452,001	\$ 336,594,234	\$ 173,319,301	\$ 1,350,996,156
2 MOU Adjustments	-	-	-	-	-	-
3 Adjusted Receipts	149,688,711	352,941,909	338,452,001	336,594,234	173,319,301	1,350,996,156
4 Disbursements	(146,256,185)	(288,777,985)	(297,064,810)	(289,230,481)	(149,182,120)	(1,170,511,581)
5 Receipts Net of Required Transfers	3,432,526	64,163,924	41,387,191	47,363,753	24,137,181	180,484,575
6 I&E Transfer	-	-	(25,739,700)	(47,695,000)	(15,062,500)	(88,497,200)
7 Net Receipts	\$ 3,432,526	\$ 64,163,924	\$ 15,647,491	\$ (331,247)	\$ 9,074,681	\$ 91,987,375
8 <i>Ratio of Receipts to Required Disbursements (Line 3/Line 4)</i>	102%	122%	114%	116%	116%	115%
Sewer						
9 Receipts	\$ 232,377,715	\$ 469,788,882	\$ 476,269,761	\$ 467,743,744	\$ 266,102,855	\$ 1,912,282,957
10 MOU Adjustments	-	-	-	-	-	-
11 Adjusted Receipts	232,377,715	469,788,882	476,269,761	467,743,744	266,102,855	1,912,282,957
12 Disbursements	(219,538,325)	(441,443,340)	(458,903,335)	(453,406,636)	(224,199,199)	(1,797,490,835)
13 Receipts Net of Required Transfers	12,839,390	28,345,542	17,366,426	14,337,108	41,903,656	114,792,122
14 I&E Transfer	-	-	(22,698,100)	(22,547,700)	(12,730,800)	(57,976,600)
15 DWSD Shortfall Advance	(1,285,466)	(28,014,534)	(24,113,034)	-	-	(53,413,034)
16 Shortfall Repayment (principal)	-	-	-	9,367,355	8,689,920	18,057,275
17 Net Receipts	\$ 11,553,924	\$ 331,008	\$ (29,444,708)	\$ 1,156,763	\$ 37,862,776	\$ 21,459,763
18 <i>Ratio of Receipts to Required Disbursements (Line 11/Line 12)</i>	106%	106%	104%	103%	119%	106%
Combined						
19 Receipts	\$ 382,066,426	\$ 822,730,791	\$ 814,721,762	\$ 804,337,978	\$ 439,422,156	\$ 3,263,279,113
20 MOU Adjustments	-	-	-	-	-	-
21 Adjusted Receipts	382,066,426	822,730,791	814,721,762	804,337,978	439,422,156	3,263,279,113
22 Disbursements	(365,794,510)	(730,221,325)	(755,968,145)	(742,637,117)	(373,381,319)	(2,968,002,416)
23 Receipts Net of Required Transfers	16,271,916	92,509,466	58,753,617	61,700,861	66,040,837	295,276,697
24 I&E Transfer	-	-	(48,437,800)	(70,242,700)	(27,793,300)	(146,473,800)
25 Shortfall Advance	(1,285,466)	(28,014,534)	(24,113,034)	-	-	(53,413,034)
26 Shortfall Repayment	-	-	-	9,367,355	8,689,920	18,057,275
27 Net Receipts	\$ 14,986,450	\$ 64,494,932	\$ (13,797,217)	\$ 825,516	\$ 46,937,457	\$ 113,447,138
28 <i>Ratio of Receipts to Required Disbursements (Line 21/Line 22)</i>	104%	113%	108%	108%	118%	110%

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 six months of activity to date.

Water fund cash receipts exceeded required MBO disbursements by 3% through December 31, 2019 with a historical ratio of 3% since January 1, 2016.

Sewer fund cash receipts fell short of required MBO disbursements by 4% through December 31, 2019 with a historic shortfall of 5% since January 1, 2016. DWSD has recognized this issue and proactively implemented plans in December 2019 to resolve the current shortfall.

On December 3, DWSD transferred \$2.6 million from Sewer Operations & Maintenance back to the Sewer Receiving Fund. The remaining current year shortfall will be remedied by the end of February 2020 with an additional \$4.5 million cash replenishment transfer to GLWA; the DWSD Operations & Maintenance budgeted transfer request was reduced by \$1 million for March 2020 to hedge any future cashflow timing issues.

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.

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.

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.

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

	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020 to Date	Life-to-Date Total
Water						
1 Receipts	\$ 26,201,881	\$ 96,451,105	\$ 101,233,147	\$ 99,868,219	\$ 50,678,567	\$ 374,432,919
2 MOU Adjustments	18,446,100	-	-	-	-	18,446,100
3 Adjusted Receipts	44,647,981	96,451,105	101,233,147	99,868,219	50,678,567	392,879,019
4 Disbursements	(47,809,552)	(93,066,144)	(93,049,457)	(97,694,600)	(49,251,246)	(380,870,999)
5 Receipts Net of Required Transfers	(3,161,571)	3,384,961	8,183,690	2,173,619	1,427,321	12,008,020
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)	\$ 1,427,321	\$ 3,600,940
8 <i>Ratio of Receipts to Required Disbursements (Line 3/Line 4)</i>	93%	104%	109%	102%	103%	103%
Sewer						
9 Receipts	\$ 65,256,734	\$ 233,723,367	\$ 242,104,791	\$ 265,339,797	\$ 135,862,928	\$ 942,287,617
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	135,862,928	1,004,569,917
12 Disbursements	(122,297,300)	(261,963,973)	(266,217,825)	(271,018,306)	(141,199,944)	(1,062,697,348)
13 Receipts Net of Required Transfers	(1,285,466)	(28,240,606)	(24,113,034)	848,691	(5,337,016)	(58,127,431)
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	\$ (5,337,016)	\$ (4,714,397)
17 <i>Ratio of Receipts to Required Disbursements (Line 11/Line 12)</i>	99%	89%	91%	100%	96%	95%
Combined						
18 Receipts	\$ 91,458,615	\$ 330,174,472	\$ 343,337,938	\$ 365,208,016	\$ 186,541,495	\$1,316,720,536
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	186,541,495	1,397,448,936
21 Disbursements	(170,106,852)	(355,030,117)	(359,267,282)	(368,712,906)	(190,451,190)	(1,443,568,347)
22 Receipts Net of Required Transfers	(4,447,037)	(24,855,645)	(15,929,344)	3,022,310	(3,909,695)	(46,119,411)
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)	\$ (3,909,695)	\$ (1,113,457)
26 <i>Ratio of Receipts to Required Disbursements (Line 20/Line 21)</i>	97%	93%	96%	101%	98%	97%

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
<u>(29,526,072)</u>	Subtotal
238,264	June IWC not due until July
<u>(29,287,808)</u>	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
6/30/2019	Record FY 16 and FY 17 Loan Receivable		29,300,000
2/8/2019	Loan Receivable Payment (for the months of Jul - Dec)	4,635,462	24,664,538
2/22/2019	Loan Receivable Payment (for the months of Jan - Mar)	2,353,768	22,310,770
4/15/2019	Loan Receivable Payment (for the month of Apr)	789,990	21,520,780
5/8/2019	Loan Receivable Payment (for the month of May)	792,705	20,728,075
6/7/2019	Loan Receivable Payment (for the month of June)	795,430	19,932,645
7/5/2019	Loan Receivable Payment (for the month of July)	798,164	19,134,480
8/8/2019	Loan Receivable Payment (for the month of August)	800,908	18,333,572
9/6/2019	Loan Receivable Payment (for the month of September)	803,661	17,529,911
10/2/2019	Loan Receivable Payment (for the month of October)	806,424	16,723,487
11/4/2019	Loan Receivable Payment (for the month of November)	809,196	15,914,291
12/3/2019	Loan Receivable Payment (for the month of December)	811,978	15,102,314
		14,197,686	15,102,314

Table 4 – FY 2017 DWSD Loan Receivable Payments - Sewer

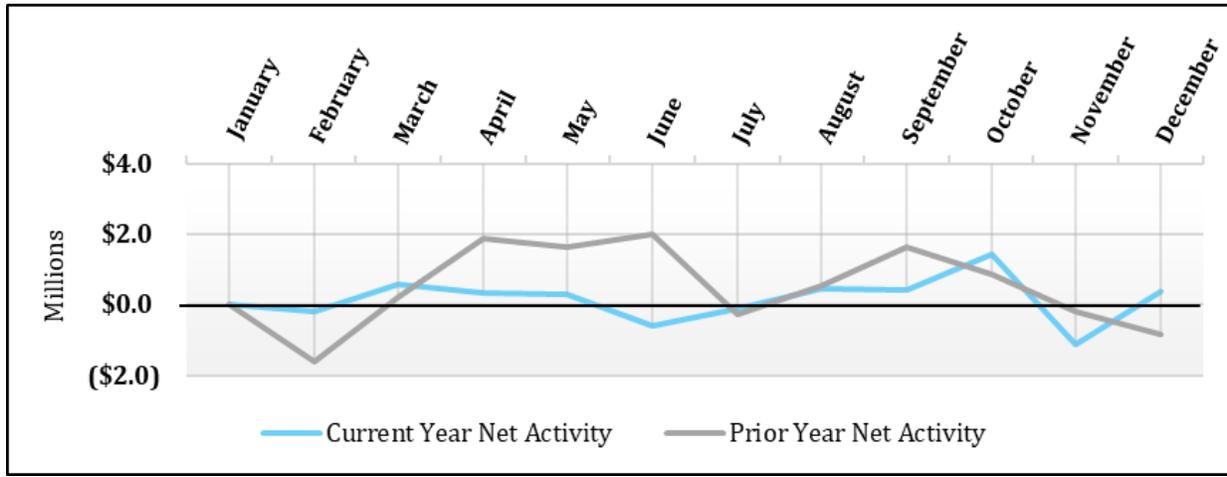
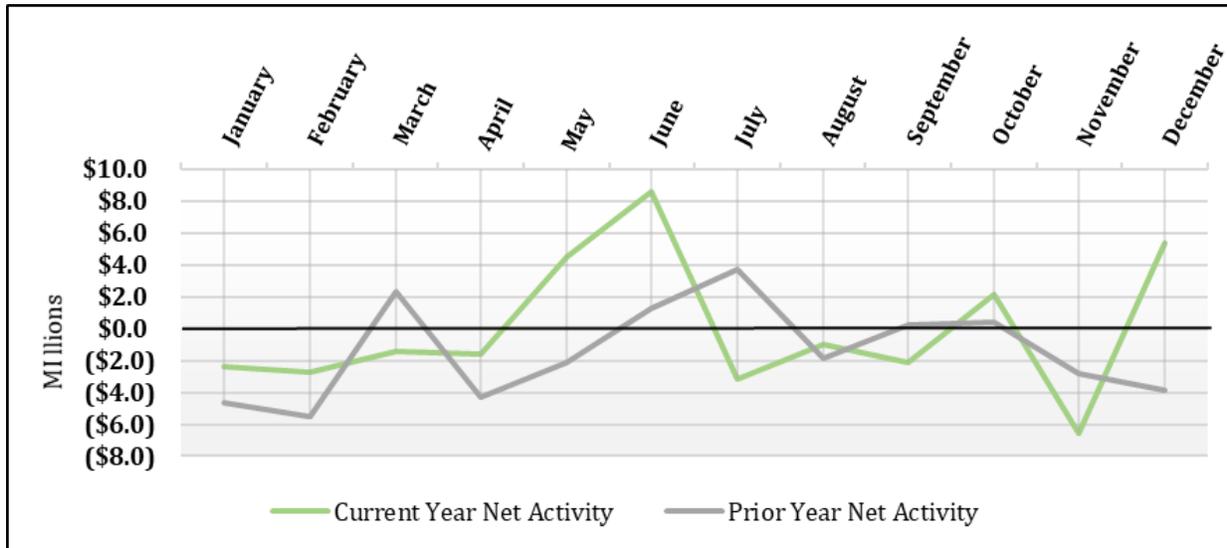
Date	Transaction	Principal	Interest	Total Paid
2/8/2019	Loan Receivable Payment (for the months of Jul - Dec)	4,635,462	564,636	5,200,098
2/22/2019	Loan Receivable Payment (for the months of Jan - Mar)	2,353,768	246,280	2,600,049
4/15/2019	Loan Receivable Payment (for the month of Apr)	789,990	76,693	866,683
5/8/2019	Loan Receivable Payment (for the month of May)	792,705	73,978	866,683
6/7/2019	Loan Receivable Payment (for the month of June)	795,430	71,253	866,683
7/5/2019	Loan Receivable Payment (for the month of July)	798,164	68,518	866,683
8/8/2019	Loan Receivable Payment (for the month of August)	800,908	65,775	866,683
9/6/2019	Loan Receivable Payment (for the month of September)	803,661	63,022	866,683
10/2/2019	Loan Receivable Payment (for the month of October)	806,424	60,259	866,683
11/4/2019	Loan Receivable Payment (for the month of November)	809,196	57,487	866,683
12/3/2019	Loan Receivable Payment (for the month of December)	811,978	54,705	866,683
		14,197,687	1,402,606	15,600,293

Table 5 – FY 2018 DWSD Loan Receivable - Sewer

Date	Transaction	Amount	Balance
6/30/2019	Record FY 18 Loan Receivable		24,113,034
7/15/2019	Loan Receivable Payment (for the month of July)	638,978	23,474,056
8/8/2019	Loan Receivable Payment (for the month of August)	640,686	22,833,370
9/6/2019	Loan Receivable Payment (for the month of September)	642,400	22,190,970
10/2/2019	Loan Receivable Payment (for the month of October)	644,118	21,546,852
11/4/2019	Loan Receivable Payment (for the month of November)	645,840	20,901,012
12/3/2019	Loan Receivable Payment (for the month of December)	647,567	20,253,445
		3,859,589	20,253,445

Table 6 – FY 2018 DWSD Loan Receivable Payments - Sewer

Date	Transaction	Principal	Interest	Total Paid
7/15/2019	Loan Receivable Payment (for the month of July)	638,978	64,482	703,460
8/8/2019	Loan Receivable Payment (for the month of August)	640,686	62,774	703,460
9/6/2019	Loan Receivable Payment (for the month of September)	642,400	61,060	703,460
10/2/2019	Loan Receivable Payment (for the month of October)	644,118	59,342	703,460
11/4/2019	Loan Receivable Payment (for the month of November)	645,840	57,620	703,460
12/3/2019	Loan Receivable Payment (for the month of December)	647,567	55,893	703,460
		3,859,589	361,171	4,220,760

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 7 – 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 six months of activity to date.

Water fund cash receipts exceeded required MBO disbursements by 13% through December 31, 2019 with a historical ratio of cash receipts exceeding MBO disbursements by 12% since January 1, 2016.

Sewer fund cash receipts exceeded required MBO disbursements by 10% through December 31, 2019 and with a historical ratio of cash receipts exceeding MBO disbursements by 2% since January 1, 2016.

Table 7 – Combined Net Cash Flows from Trust Receipts & Disbursements

	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020 to Date	Life-to-Date Total
Water						
1 Receipts	\$ 175,890,592	\$ 449,393,014	\$ 439,685,148	\$ 436,462,453	\$ 223,997,868	\$ 1,725,429,075
2 MOU Adjustments	18,446,100	-	-	-	-	18,446,100
3 Adjusted Receipts	194,336,692	449,393,014	439,685,148	436,462,453	223,997,868	1,743,875,175
4 Disbursements	(194,065,737)	(381,844,129)	(390,114,267)	(386,925,081)	(198,433,366)	(1,551,382,580)
5 Receipts Net of Required Transfers	270,955	67,548,885	49,570,881	49,537,372	25,564,502	192,492,595
6 I&E Transfer	-	-	(25,739,700)	(56,102,080)	(15,062,500)	(96,904,280)
7 Net Receipts	\$ 270,955	\$ 67,548,885	\$ 23,831,181	\$ (6,564,708)	\$ 10,502,002	\$ 95,588,315
8 <i>Ratio of Receipts to Required Disbursements (Line 3/Line 4)</i>	100%	118%	113%	113%	113%	112%
Sewer						
9 Receipts	\$ 297,634,449	\$ 703,512,249	\$ 718,374,552	\$ 733,083,541	\$ 401,965,783	\$ 2,854,570,574
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	401,965,783	2,916,852,874
12 Disbursements	(341,835,625)	(703,407,313)	(725,121,160)	(724,424,942)	(365,399,143)	(2,860,188,183)
13 Receipts Net of Required Transfers	11,553,924	104,936	(6,746,608)	15,185,799	36,566,640	56,664,691
14 I&E Transfer	-	-	(22,698,100)	(22,547,700)	(12,730,800)	(57,976,600)
15 Shortfall Advance	-	-	-	-	-	-
16 Shortfall Repayment (principal)	-	-	-	9,367,355	8,689,920	18,057,275
17 Net Receipts	\$ 11,553,924	\$ 104,936	\$ (29,444,708)	\$ (7,361,901)	\$ 32,525,760	\$ 16,745,367
18 <i>Ratio of Receipts to Required Disbursements (Line 11/Line 12)</i>	103%	100%	99%	102%	110%	102%
Combined						
19 Receipts	\$ 473,525,041	\$ 1,152,905,263	\$ 1,158,059,700	\$ 1,169,545,994	\$ 625,963,651	\$ 4,579,999,649
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	625,963,651	4,660,728,049
22 Disbursements	(535,901,362)	(1,085,251,442)	(1,115,235,427)	(1,111,350,023)	(563,832,509)	(4,411,570,763)
23 Receipts Net of Required Transfers	11,824,879	67,653,821	42,824,273	64,723,171	62,131,142	249,157,286
24 I&E Transfer	-	-	(48,437,800)	(78,649,780)	(27,793,300)	(154,880,880)
25 Shortfall Advance	-	-	-	-	-	-
26 Shortfall Repayment	-	-	-	9,367,355	8,689,920	18,057,275
27 Net Receipts	\$ 11,824,879	\$ 67,653,821	\$ (5,613,527)	\$ (4,559,254)	\$ 43,027,762	\$ 112,333,682
28 <i>Ratio of Receipts to Required Disbursements (Line 21/Line 22)</i>	102%	106%	104%	106%	111%	106%

APPENDIX

GLWA Aged Accounts Receivable- WATER ACCOUNTS

Balances as of 12/31/19

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
ALLEN PARK	\$186,585.70	\$186,585.70	\$0.00	\$0.00	\$0.00
ASH TOWNSHIP	\$66,659.12	\$66,659.12	\$0.00	\$0.00	\$0.00
BELLEVILLE	\$27,625.15	\$27,625.15	\$0.00	\$0.00	\$0.00
BERLIN TOWNSHIP	\$56,745.31	\$56,745.31	\$0.00	\$0.00	\$0.00
BROWNSTOWN TOWNSHIP	\$277,983.55	\$277,983.55	\$0.00	\$0.00	\$0.00
BRUCE TOWNSHIP	\$25,045.16	\$25,045.16	\$0.00	\$0.00	\$0.00
BURTCHVILLE TOWNSHIP	\$23,583.16	\$23,583.16	\$0.00	\$0.00	\$0.00
CANTON TOWNSHIP	\$795,067.62	\$795,067.62	\$0.00	\$0.00	\$0.00
CENTER LINE	\$38,451.83	\$38,451.83	\$0.00	\$0.00	\$0.00
CHESTERFIELD TOWNSHIP	\$646,441.08	\$646,441.08	\$0.00	\$0.00	\$0.00
CLINTON TOWNSHIP	\$581,971.68	\$581,971.68	\$0.00	\$0.00	\$0.00
COMMERCE TOWNSHIP	\$264,571.37	\$264,571.37	\$0.00	\$0.00	\$0.00
DEARBORN	\$2,798,394.80	\$1,645,411.35	\$1,152,983.45	\$0.00	\$0.00
DEARBORN HEIGHTS	\$294,673.08	\$294,673.08	\$0.00	\$0.00	\$0.00
EASTPOINTE	\$255,470.88	\$255,470.88	\$0.00	\$0.00	\$0.00
ECORSE	\$119,141.29	\$119,141.29	\$0.00	\$0.00	\$0.00
FARMINGTON	\$79,165.12	\$79,165.12	\$0.00	\$0.00	\$0.00
FARMINGTON HILLS	\$684,032.89	\$684,032.89	\$0.00	\$0.00	\$0.00
FERNDALE	\$159,748.28	\$159,748.28	\$0.00	\$0.00	\$0.00
FLAT ROCK	\$212,693.75	\$212,693.75	\$0.00	\$0.00	\$0.00
FLINT	\$328,644.94	\$328,644.94	\$0.00	\$0.00	\$0.00
FRASER	\$96,768.19	\$96,768.19	\$0.00	\$0.00	\$0.00
GARDEN CITY	\$141,590.85	\$141,590.85	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- WATER ACCOUNTS

Balances as of 12/31/19

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
GIBRALTAR	\$27,551.35	\$27,551.35	\$0.00	\$0.00	\$0.00
GREENWOOD TOWNSHIP	\$ (21,039.13)	\$ (21,039.13)	\$0.00	\$0.00	\$0.00
GROSSE ILE TOWNSHIP	\$171,136.73	\$171,136.73	\$0.00	\$0.00	\$0.00
GROSSE POINTE PARK	\$117,279.73	\$117,279.73	\$0.00	\$0.00	\$0.00
GROSSE POINTE SHORES	\$44,784.38	\$44,784.38	\$0.00	\$0.00	\$0.00
GROSSE POINTE WOODS	\$113,845.85	\$113,845.85	\$0.00	\$0.00	\$0.00
HAMTRAMCK	\$65,600.59	\$65,600.59	\$0.00	\$0.00	\$0.00
HARPER WOODS	\$152,470.80	\$152,470.80	\$0.00	\$0.00	\$0.00
HARRISON TWP	\$120,634.87	\$120,634.87	\$0.00	\$0.00	\$0.00
HAZEL PARK	\$59,263.01	\$59,263.01	\$0.00	\$0.00	\$0.00
HIGHLAND PARK	\$7,977,318.07	\$199,504.24	\$107,422.42	\$108,007.06	\$7,562,384.35
HURON TOWNSHIP	\$118,661.66	\$118,661.66	\$0.00	\$0.00	\$0.00
IMLAY CITY	\$131,221.48	\$131,221.48	\$0.00	\$0.00	\$0.00
IMLAY TOWNSHIP	\$1,061.45	\$1,061.45	\$0.00	\$0.00	\$0.00
INKSTER	\$100,004.91	\$100,004.91	\$0.00	\$0.00	\$0.00
KEEGO HARBOR	\$23,425.95	\$23,425.95	\$0.00	\$0.00	\$0.00
LAPEER	\$251,977.62	\$251,977.62	\$0.00	\$0.00	\$0.00
LENOX TOWNSHIP	\$41,101.05	\$41,101.05	\$0.00	\$0.00	\$0.00
LINCOLN PARK	\$197,287.18	\$197,287.18	\$0.00	\$0.00	\$0.00
LIVONIA	\$878,967.44	\$878,967.44	\$0.00	\$0.00	\$0.00
MACOMB TWP	\$924,591.91	\$924,591.91	\$0.00	\$0.00	\$0.00
MADISON HEIGHTS	\$153,799.99	\$153,799.99	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- WATER ACCOUNTS

Balances as of 12/31/19

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
MAYFIELD TOWNSHIP	\$3,073.42	\$3,073.42	\$0.00	\$0.00	\$0.00
MELVINDALE	\$102,357.39	\$102,357.39	\$0.00	\$0.00	\$0.00
NEW HAVEN	\$28,683.15	\$28,683.15	\$0.00	\$0.00	\$0.00
NOCWA	\$1,687,692.64	\$1,687,692.64	\$0.00	\$0.00	\$0.00
NORTHVILLE	\$137,694.92	\$137,694.92	\$0.00	\$0.00	\$0.00
NORTHVILLE TOWNSHIP	\$838,190.38	\$838,190.38	\$0.00	\$0.00	\$0.00
NOVI	\$664,461.01	\$664,461.01	\$0.00	\$0.00	\$0.00
OAK PARK	\$113,355.22	\$113,355.22	\$0.00	\$0.00	\$0.00
OAKLAND CO DR COM	\$5,497.43	\$5,497.43	\$0.00	\$0.00	\$0.00
PLYMOUTH	\$87,113.03	\$87,113.03	\$0.00	\$0.00	\$0.00
PLYMOUTH TOWNSHIP	\$337,529.73	\$337,529.73	\$0.00	\$0.00	\$0.00
REDFORD TOWNSHIP	\$255,201.13	\$255,201.13	\$0.00	\$0.00	\$0.00
RIVER ROUGE	\$60,647.28	\$60,647.28	\$0.00	\$0.00	\$0.00
RIVERVIEW	\$70,750.75	\$70,750.75	\$0.00	\$0.00	\$0.00
ROCKWOOD	\$22,198.81	\$22,198.81	\$0.00	\$0.00	\$0.00
ROMEO	\$19,822.08	\$19,822.08	\$0.00	\$0.00	\$0.00
ROMULUS	\$330,197.00	\$330,197.00	\$0.00	\$0.00	\$0.00
ROSEVILLE	\$216,278.00	\$216,278.00	\$0.00	\$0.00	\$0.00
ROYAL OAK TOWNSHIP	\$16,293.25	\$16,293.25	\$0.00	\$0.00	\$0.00
SHELBY TOWNSHIP	\$1,013,541.01	\$1,013,541.01	\$0.00	\$0.00	\$0.00
SOCWA	\$3,601,117.54	\$3,601,117.54	\$0.00	\$0.00	\$0.00
SOUTH ROCKWOOD	\$9,113.38	\$9,113.38	\$0.00	\$0.00	\$0.00
SOUTHGATE	\$184,812.80	\$184,812.80	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- WATER ACCOUNTS

Balances as of 12/31/19

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
ST. CLAIR SHORES	\$508,475.69	\$508,475.69	\$0.00	\$0.00	\$0.00
STERLING HEIGHTS	\$1,165,630.88	\$1,165,630.88	\$0.00	\$0.00	\$0.00
SUMPTER TOWNSHIP	\$55,082.66	\$55,082.66	\$0.00	\$0.00	\$0.00
SYLVAN LAKE	\$18,105.93	\$18,105.93	\$0.00	\$0.00	\$0.00
TAYLOR	\$749,943.07	\$749,943.07	\$0.00	\$0.00	\$0.00
TRENTON	\$135,029.82	\$135,029.82	\$0.00	\$0.00	\$0.00
TROY (SEOC)	\$1,035,300.65	\$1,035,300.65	\$0.00	\$0.00	\$0.00
UTICA	\$89,397.66	\$89,397.66	\$0.00	\$0.00	\$0.00
VAN BUREN TOWNSHIP	\$294,454.36	\$294,454.36	\$0.00	\$0.00	\$0.00
VILLAGE OF ALMONT	\$18,661.35	\$18,661.35	\$0.00	\$0.00	\$0.00
WALLED LAKE	\$62,748.11	\$62,748.11	\$0.00	\$0.00	\$0.00
WARREN	\$817,518.25	\$817,518.25	\$0.00	\$0.00	\$0.00
WASHINGTON TOWNSHIP	\$162,545.74	\$162,545.74	\$0.00	\$0.00	\$0.00
WAYNE	\$337,213.59	\$337,213.59	\$0.00	\$0.00	\$0.00
WEST BLOOMFIELD TWP (C-O)	\$1,585,313.25	\$1,585,313.25	\$0.00	\$0.00	\$0.00
WESTLAND	\$968,093.39	\$968,093.39	\$0.00	\$0.00	\$0.00
WIXOM	\$186,757.15	\$186,757.15	\$0.00	\$0.00	\$0.00
WOODHAVEN	\$130,692.20	\$130,692.20	\$0.00	\$0.00	\$0.00
YCUA	\$1,622,496.15	\$1,622,496.15	\$0.00	\$0.00	\$0.00
TOTAL WATER ACCOUNTS	\$39,561,082.94	\$30,630,285.66	\$1,260,405.87	\$108,007.06	\$7,562,384.35

GLWA Aged Accounts Receivable- SEWER ACCOUNTS

Balances as of 12/31/19

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	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
FARMINGTON	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GROSSE POINTE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GROSSE POINTE FARMS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GROSSE POINTE PARK	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
HAMTRAMCK	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
HARPER WOODS	\$18,300.00	\$18,300.00	\$0.00	\$0.00	\$0.00
HIGHLAND PARK	\$33,646,586.73	\$472,500.00	\$472,500.00	\$472,500.00	\$32,229,086.73
MELVINDALE	\$127,800.00	\$127,800.00	\$0.00	\$0.00	\$0.00
OAKLAND COUNTY GWK DD	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
REDFORD TOWNSHIP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ROUGE VALLEY	\$4,513,500.00	\$4,513,500.00	\$0.00	\$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	\$4,200.00	\$4,200.00	\$0.00	\$0.00	\$0.00
TOTAL SEWER ACCOUNTS	\$40,466,286.23	\$7,292,199.50	\$472,500.00	\$472,500.00	\$32,229,086.73

GLWA Aged Accounts Receivable- IWC ACCOUNTS

Balances as of 12/31/19

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)	\$10,787.27	\$10,787.27	\$0.00	\$0.00	\$0.00
AUBURN HILLS (E-F)	\$348.14	\$348.14	\$0.00	\$0.00	\$0.00
AUBURN HILLS (C-O) ADMIN	\$1,969.62	\$1,969.62	\$0.00	\$0.00	\$0.00
BLOOMFIELD HILLS	\$1,570.01	\$1,570.01	\$0.00	\$0.00	\$0.00
BLOOMFIELD TOWNSHIP	\$7,197.71	\$7,197.71	\$0.00	\$0.00	\$0.00
CANTON TOWNSHIP	\$684,837.98	\$36,253.88	\$18,126.94	\$0.00	\$630,457.16
DETROIT METRO WC AIRPORT	\$101.40	\$101.40	\$0.00	\$0.00	\$0.00
CENTER LINE	\$3,501.68	\$3,501.68	\$0.00	\$0.00	\$0.00
CHESTERFIELD TOWNSHIP	\$23,156.38	\$23,156.38	\$0.00	\$0.00	\$0.00
CLINTON TOWNSHIP	\$24,303.89	\$24,303.89	\$0.00	\$0.00	\$0.00
DEARBORN	\$105,440.79	\$70,293.86	\$35,146.93	\$0.00	\$0.00
DEARBORN HEIGHTS	\$8,688.29	\$8,688.29	\$0.00	\$0.00	\$0.00
EASTPOINTE	\$12,272.78	\$12,272.78	\$0.00	\$0.00	\$0.00
FARMINGTON	\$3,837.99	\$3,837.99	\$0.00	\$0.00	\$0.00
FARMINGTON HILLS	\$23,142.86	\$23,142.86	\$0.00	\$0.00	\$0.00
CITY OF FARMINGTON (E-F)	\$190.97	\$190.97	\$0.00	\$0.00	\$0.00
CITY OF FERNDALE	\$8,466.90	\$8,466.90	\$0.00	\$0.00	\$0.00
FRASER	\$4,715.20	\$4,715.20	\$0.00	\$0.00	\$0.00
GARDEN CITY	\$5,803.46	\$5,803.46	\$0.00	\$0.00	\$0.00
GROSSE POINTE PARK	\$1,123.85	\$1,123.85	\$0.00	\$0.00	\$0.00
GROSSE POINTE SHORES	\$302.51	\$302.51	\$0.00	\$0.00	\$0.00
GROSSE POINTE WOODS	\$2,458.95	\$2,458.95	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- IWC ACCOUNTS

Balances as of 12/31/19

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
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
HAMTRAMCK	\$3,968.12	\$3,968.12	\$0.00	\$0.00	\$0.00
HARPER WOODS	\$1,884.35	\$1,884.35	\$0.00	\$0.00	\$0.00
HARRISON TWP	\$3,009.89	\$3,009.89	\$0.00	\$0.00	\$0.00
HAZEL PARK	\$3,063.97	\$3,063.97	\$0.00	\$0.00	\$0.00
INKSTER	\$5,286.32	\$5,286.32	\$0.00	\$0.00	\$0.00
KEEGO HARBOR	\$664.17	\$664.17	\$0.00	\$0.00	\$0.00
LENOX TOWNSHIP	\$618.54	\$618.54	\$0.00	\$0.00	\$0.00
LIVONIA	\$38,731.42	\$38,731.42	\$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	\$6,901.96	\$6,901.96	\$0.00	\$0.00	\$0.00
NEW HAVEN	\$584.74	\$584.74	\$0.00	\$0.00	\$0.00
NORTHVILLE	\$3,954.60	\$3,883.62	\$70.98	\$0.00	\$0.00
NORTHVILLE TOWNSHIP	\$164,318.05	\$8,696.74	\$4,348.37	\$0.00	\$151,272.94
NOVI	\$16,512.99	\$16,512.99	\$0.00	\$0.00	\$0.00
OAK PARK	\$6,465.94	\$6,465.94	\$0.00	\$0.00	\$0.00
ORION TOWNSHIP (C-O)	\$3,472.95	\$3,472.95	\$0.00	\$0.00	\$0.00
ORION TOWNSHIP (C-O) ADMIN	\$441.69	\$441.69	\$0.00	\$0.00	\$0.00
PLYMOUTH	\$3,707.86	\$3,707.86	\$0.00	\$0.00	\$0.00
PLYMOUTH TOWNSHIP	\$457,375.10	\$24,207.56	\$12,103.78	\$0.00	\$421,063.76

GLWA Aged Accounts Receivable- IWC ACCOUNTS

Balances as of 12/31/19

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
REDFORD TOWNSHIP	\$10,433.31	\$10,433.31	\$0.00	\$0.00	\$0.00
ROCHESTER HILLS	\$17,515.16	\$17,515.16	\$0.00	\$0.00	\$0.00
SHELBY TOWNSHIP	\$11,963.51	\$11,963.51	\$0.00	\$0.00	\$0.00
LAKE ORION	\$763.88	\$763.88	\$0.00	\$0.00	\$0.00
ROSEVILLE	\$14,054.04	\$14,054.04	\$0.00	\$0.00	\$0.00
ROYAL OAK TOWNSHIP	\$ (887.25)	\$0.00	\$ (887.25)	\$0.00	\$0.00
ROYAL OAK	\$13,102.57	\$13,102.57	\$0.00	\$0.00	\$0.00
ST. CLAIR SHORES	\$11,471.72	\$11,471.72	\$0.00	\$0.00	\$0.00
STERLING HEIGHTS	\$29,934.97	\$29,934.97	\$0.00	\$0.00	\$0.00
TROY (SEOC)	\$35,464.65	\$35,464.65	\$0.00	\$0.00	\$0.00
TROY (E-F)	\$365.04	\$365.04	\$0.00	\$0.00	\$0.00
UTICA	\$5,717.27	\$5,717.27	\$0.00	\$0.00	\$0.00
VAN BUREN TOWNSHIP	\$1,755.91	\$1,755.91	\$0.00	\$0.00	\$0.00
WEST BLOOMFIELD TWP (C-O)	\$1,804.92	\$1,804.92	\$0.00	\$0.00	\$0.00
WEST BLOOMFIELD TWP. (C-O) F	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
WEST BLOOMFIELD TWP (E-F)	\$12,097.02	\$12,097.02	\$0.00	\$0.00	\$0.00
WASHINGTON TOWNSHIP	\$2,682.03	\$2,682.03	\$0.00	\$0.00	\$0.00
WAYNE	\$4,770.87	\$4,770.87	\$0.00	\$0.00	\$0.00
WESTLAND	\$21,569.47	\$21,569.47	\$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	\$1,008.93	\$1,008.93	\$0.00	\$0.00	\$0.00
BIRMINGHAM (SEOC)	\$10,645.31	\$10,636.86	\$8.45	\$0.00	\$0.00

GLWA Aged Accounts Receivable- IWC ACCOUNTS

Balances as of 12/31/19

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
BIRMINGHAM (E-F)	\$2,315.30	\$2,315.30	\$0.00	\$0.00	\$0.00
CLARKSTON	\$263.64	\$263.64	\$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
HIGHLAND PARK	\$1,699,128.25	\$7,792.59	\$3,932.63	\$0.00	\$1,687,403.03
HUNTINGTON WOODS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CHARTER TOWNSHIP OF INDEPENI	\$4,650.88	\$4,650.88	\$0.00	\$0.00	\$0.00
INDEPENDENCE (C-O) ADMIN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
LATHRUP	\$1,336.79	\$1,336.79	\$0.00	\$0.00	\$0.00
OAKLAND TOWNSHIP	\$410.67	\$410.67	\$0.00	\$0.00	\$0.00
ORCHARD LAKE VILLAGE	\$381.94	\$381.94	\$0.00	\$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
CITY OF ROCHESTER	\$3,540.55	\$3,540.55	\$0.00	\$0.00	\$0.00
SOUTHFIELD (E-F)	\$27,065.35	\$27,065.35	\$0.00	\$0.00	\$0.00
SOUTHFIELD (SEOC)	\$3,711.24	\$3,711.24	\$0.00	\$0.00	\$0.00
VILLAGE OF FRANKLIN	\$62.53	\$62.53	\$0.00	\$0.00	\$0.00
WATERFORD TOWNSHIP DPW	\$11,831.69	\$11,831.69	\$0.00	\$0.00	\$0.00
WATERFORD TOWNSHIP DPW (ADMI	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ROMULUS	\$880.49	\$880.49	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- IWC ACCOUNTS

Balances as of 12/31/19

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
TOTAL IWC ACCOUNTS	\$3,631,210.22	\$668,162.50	\$72,850.83	\$0.00	\$2,890,196.89

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 12/31/19

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
3M COMPANY	\$4,519.46	\$4,519.46	\$0.00	\$0.00	\$0.00
A & R PACKING CO., LLC	\$9,568.58	\$9,568.58	\$0.00	\$0.00	\$0.00
AACTRON	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ACADEMY PACKING CO.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ACME RUSTPROOF	\$68.27	\$68.27	\$0.00	\$0.00	\$0.00
AEVITAS SPECIALITY SERVICES	\$21,655.92	\$21,655.92	\$0.00	\$0.00	\$0.00
ALEXANDER & HORNING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ALEXANDER & HORNING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ALEXANDER & HORNING	\$0.00	\$0.00	\$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	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AMERICAN WASTE TECH INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AMERITI MFG. CO.	\$11,263.62	\$11,263.62	\$0.00	\$0.00	\$0.00
ATWATER IN THE PARK	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AUTOMOTIVE FINISH	\$0.00	\$0.00	\$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	\$470.45	\$0.00	\$121.80	\$0.00	\$348.65
BARON INDUSTRIES	\$1,671.46	\$1,671.46	\$0.00	\$0.00	\$0.00
BARTZ BAKERY	\$0.00	\$0.00	\$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 12/31/19

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
BAYS MICHIGAN CORPORATION	\$4.83	\$4.83	\$0.00	\$0.00	\$0.00
BEIRUT BAKERY, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BETTER MADE SNACK FOOD	\$13,788.26	\$13,788.26	\$0.00	\$0.00	\$0.00
BLACK LOTUS BREWING CO.	\$61.25	\$0.00	\$61.25	\$0.00	\$0.00
BOZEK'S MARKET	\$74.00	\$74.00	\$0.00	\$0.00	\$0.00
BREW DETROIT	\$5,843.53	\$5,843.53	\$0.00	\$0.00	\$0.00
BROADWAY MKT CORNED BEEF	\$17.08	\$17.08	\$0.00	\$0.00	\$0.00
BROOKS BREWING, LLC.	\$108.06	\$0.00	\$108.06	\$0.00	\$0.00
BROWN IRON BREWHOUSE	\$59.87	\$0.00	\$59.87	\$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	\$3.13	\$1.51	\$0.00	\$0.00	\$1.62
CF BURGER CREAMERY	\$18,348.07	\$18,348.07	\$0.00	\$0.00	\$0.00
CHILANGO'S BAKERY	\$1,589.96	\$114.20	\$48.26	\$25.74	\$1,401.76
CINTAS CORP. - MACOMB TWP.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CINTAS CORPORATION	\$23,776.86	\$23,776.86	\$0.00	\$0.00	\$0.00
CINTAS CORPORATION	\$11,924.54	\$11,924.54	\$0.00	\$0.00	\$0.00
CITY LAUNDRY, INC.	\$1.20	\$1.20	\$0.00	\$0.00	\$0.00
CLASSIC CONTAINER CORP.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
COCA-COLA REFRESHMENTS USA,	\$1,967.75	\$1,967.75	\$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 12/31/19

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.	\$7,303.99	\$3,341.59	\$3,962.40	\$0.00	\$0.00
CROSS CHEMICAL COMPANY, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DARLING INGREDIENTS, INC.	\$19,866.86	\$19,866.86	\$0.00	\$0.00	\$0.00
DAVE'S SAUSAGE FACTORY 2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DEARBORN BREWING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DEARBORN SAUSAGE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DEARBORN SAUSAGE CO., INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DETROIT BEER	\$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	\$39.84	\$25.61	\$14.23	\$0.00	\$0.00
DETRONIC INDUSTRIES, INC.	\$75.88	\$75.88	\$0.00	\$0.00	\$0.00
DIFCO LABORATORIES, INC.	\$21,498.54	\$21,498.54	\$0.00	\$0.00	\$0.00
DIVERSIFIED CHEM TECH. INC.	\$140.37	\$140.37	\$0.00	\$0.00	\$0.00
DOMESTIC UNIFORM RENTAL	\$1,792.32	\$1,792.32	\$0.00	\$0.00	\$0.00
DOMESTIC UNIFORM RENTAL	\$706.57	\$706.57	\$0.00	\$0.00	\$0.00
DOWNEY BREWING COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
E.W. GROBBEL'S SONS, INC.	\$4,462.38	\$4,462.38	\$0.00	\$0.00	\$0.00
EASTERN MARKET BREWING COMPF	\$180.65	\$0.00	\$180.65	\$0.00	\$0.00
ENVIROSOLIDS, L.L.C.	\$27,444.06	\$0.00	\$27,444.06	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 12/31/19

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
EQ DETROIT, INC.	\$1,553.73	\$1,553.73	\$0.00	\$0.00	\$0.00
EQ DETROIT, INC.	\$19,907.60	\$19,907.60	\$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	\$ (0.10)	\$0.00	\$0.00	\$ (0.10)	\$0.00
EXTRUDE HONE CORPORATION	\$186.07	\$186.07	\$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.	\$15,008.99	\$15,008.99	\$0.00	\$0.00	\$0.00
FORD NEW MODEL PROGRAM	\$497.99	\$497.99	\$0.00	\$0.00	\$0.00
FOUNDERS BREWING COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
FRESH-PAK	\$ (62.83)	\$ (62.83)	\$0.00	\$0.00	\$0.00
FRESH-PAK	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
G2O ENERGY, LLC	\$1,961.84	\$1,961.84	\$0.00	\$0.00	\$0.00
GENERAL LINEN SUPPLY CO.	\$16,084.96	\$16,084.96	\$0.00	\$0.00	\$0.00
GLOBAL TITANIUM, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GRANITE CITY FOOD & BREWERY	\$ (100.13)	\$0.00	\$ (100.13)	\$0.00	\$0.00
GRANITE CITY FOOD & BREWERY	\$53.43	\$0.00	\$53.43	\$0.00	\$0.00
GRANITE CITY FOOD & BREWERY	\$185.02	\$0.00	\$90.90	\$0.00	\$94.12
GREAT BARABOO BREWING CO.	\$110.25	\$0.00	\$110.25	\$0.00	\$0.00
HACIENDA MEXICAN FOODS	\$2,732.45	\$1,159.90	\$524.65	\$847.94	\$199.96
HENKEL CORPORATION	\$220.21	\$220.21	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 12/31/19

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
HOME STYLE FOOD INC.	\$6,042.16	\$6,042.16	\$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.	\$203.63	\$203.63	\$0.00	\$0.00	\$0.00
HOUGHTON INTERNATIONAL INC.	\$128.83	\$128.83	\$0.00	\$0.00	\$0.00
HOUGHTON INTERNATIONAL INC.	\$2,169.30	\$2,169.30	\$0.00	\$0.00	\$0.00
HUNTINGTON CLEANERS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
IDP, INC.	\$169.79	\$169.79	\$0.00	\$0.00	\$0.00
INDUSTRIAL METAL COATING	\$673.64	\$673.64	\$0.00	\$0.00	\$0.00
ISLAMIC SLAUGHTER HOUSE	\$793.71	\$793.71	\$0.00	\$0.00	\$0.00
ITALIAN BUTTER BREAD STICKS	\$11.26	\$11.26	\$0.00	\$0.00	\$0.00
J & G FOOD PRODUCTS, INC.	\$2.85	\$2.85	\$0.00	\$0.00	\$0.00
JAMEX BREWING CO.	\$40.38	\$0.00	\$40.38	\$0.00	\$0.00
KAR NUT PRODUCTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
KOWALSKI SAUSAGES, CO.	\$860.88	\$860.88	\$0.00	\$0.00	\$0.00
KUHNHENN BREWING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
LA MICHOACANA FLOUR TORTILLA	\$1,415.12	\$1,415.12	\$0.00	\$0.00	\$0.00
LA MICHOACANA FLOUR TORTILLA	\$69.98	\$69.98	\$0.00	\$0.00	\$0.00
LEAR CORPORATION DBA EAGLE C	\$4,714.62	\$4,714.62	\$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.	\$2,094.92	\$2,094.92	\$0.00	\$0.00	\$0.00
MCCLURE'S PICKLES	\$13,624.62	\$586.06	\$470.46	\$12,568.10	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 12/31/19

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	\$56.92	\$56.92	\$0.00	\$0.00	\$0.00
METROPOLITAN BAKERY	\$677.19	\$677.19	\$0.00	\$0.00	\$0.00
MIBA HYDRAMECHANICA CORP.	\$183.11	\$183.11	\$0.00	\$0.00	\$0.00
MICHIGAN DAIRY	\$191,717.76	\$191,717.76	\$0.00	\$0.00	\$0.00
MICHIGAN PROD. MACHINING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MICHIGAN SOY PRODUCTS CO.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MIDWEST WIRE PRODUCTS, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MILANO BAKERY	\$707.60	\$707.60	\$0.00	\$0.00	\$0.00
MILTON CHILI CO.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MINNIE MARIE BAKERS, INC	\$5,835.43	\$5,835.43	\$0.00	\$0.00	\$0.00
MISTER UNIFORM & MAT RENTALS	\$36.15	\$3.49	\$2.78	\$1.75	\$28.13
MOTOR CITY BREWING WORKS	\$1,135.06	\$0.00	\$178.07	\$0.00	\$956.99
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 & MEZ	\$38.44	\$38.44	\$0.00	\$0.00	\$0.00
OAKWOOD BAKERY	\$312.96	\$312.96	\$0.00	\$0.00	\$0.00
PARKER'S HILLTOP BREWER & SE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
PELLERITO FOODS INC.	\$2,379.19	\$2,379.19	\$0.00	\$0.00	\$0.00
PEPSI COLA, INC.	\$108,136.55	\$69,790.70	\$38,345.85	\$0.00	\$0.00
PERSONAL UNIFORM SERVICE, IN	\$0.00	\$0.00	\$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 12/31/19

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
PINE TREE ACRES, INC.	\$62,854.49	\$62,854.49	\$0.00	\$0.00	\$0.00
PLATING SPEC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
POWER VAC OF MICHIGAN, INC.	\$170.59	\$170.59	\$0.00	\$0.00	\$0.00
PREMIER PLATING, LLC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
PRODUCTION SPRING, LLC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
QUALA SERVICES, LLC	\$1,256.25	\$1,256.25	\$0.00	\$0.00	\$0.00
RAY'S ICE CREAM CO.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
RED SPOT PAINT #409139	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
RIVER ROUGE BREWING COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ROAK BREWING CO. LLC	\$757.25	\$0.00	\$757.25	\$0.00	\$0.00
ROCHESTER MILLS BEER COMPANY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ROCHESTER MILLS PROD BREWERY	\$1,543.04	\$0.00	\$1,543.04	\$0.00	\$0.00
RTT	\$27,772.36	\$0.00	\$0.00	\$0.00	\$27,772.36
SEAFARE FOODS, INC.	\$87.91	\$87.91	\$0.00	\$0.00	\$0.00
SHERWOOD BREWING COMPANY	\$934.47	\$0.00	\$100.35	\$0.00	\$834.12
SMITH-WATKINS, LLC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SPRAYTEK, INC.	\$30.96	\$30.96	\$0.00	\$0.00	\$0.00
SUPERNATURAL SPIRITS & BREWI	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SWEETHEART BAKERY, INC.	\$1,869.67	\$158.29	\$88.59	\$75.52	\$1,547.27
THE CROWN GROUP-LIVONIA PLAN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
THE ROYAL OAK BREWERY	\$(1,031.09)	\$0.00	\$0.00	\$0.00	\$(1,031.09)
TOM LAUNDRY CLEANERS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TRAFFIC JAM & SNUG	\$41.66	\$0.00	\$21.00	\$0.00	\$20.66

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 12/31/19

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	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
U-METCO, INC.	\$1,180.80	\$1,180.80	\$0.00	\$0.00	\$0.00
UNCLE RAYS SNACKS, LLC	\$58,507.87	\$58,507.87	\$0.00	\$0.00	\$0.00
UNCLE RAYS SNACKS, LLC	\$1,964.01	\$1,964.01	\$0.00	\$0.00	\$0.00
UNIQUE LINEN SERVICES, INC.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
UNITED FISH DISTRIBUTORS	\$9.44	\$9.44	\$0.00	\$0.00	\$0.00
UNITED LINEN SERVICE, LLC.	\$277.79	\$277.79	\$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	\$712.21	\$712.21	\$0.00	\$0.00	\$0.00
US ECOLOGY ROMULUS, INC.	\$3,557.03	\$3,557.03	\$0.00	\$0.00	\$0.00
USHER OIL SERVICES	\$4,536.53	\$4,536.53	\$0.00	\$0.00	\$0.00
VALICOR ENVIROMENTAL SERVICE	\$702.28	\$702.28	\$0.00	\$0.00	\$0.00
VERNDALE PRODUCTS	\$9,028.37	\$9,028.37	\$0.00	\$0.00	\$0.00
VERNDALE PRODUCTS, INC.	\$241.38	\$241.38	\$0.00	\$0.00	\$0.00
VERNOR FOOD PRODUCTS	\$(36.26)	\$0.00	\$0.00	\$0.00	\$(36.26)
WIGLEY'S MEAT PROCESS	\$637.48	\$637.48	\$0.00	\$0.00	\$0.00
WINTER SAUSAGE MFG. CO.	\$887.92	\$887.92	\$0.00	\$0.00	\$0.00
WINTER SAUSAGE MFG. CO.	\$145.14	\$145.14	\$0.00	\$0.00	\$0.00
WOLVERINE PACKING CO	\$9,336.65	\$9,336.65	\$0.00	\$0.00	\$0.00
WOLVERINE PACKING CO.	\$3,144.73	\$3,144.73	\$0.00	\$0.00	\$0.00

GLWA Aged Accounts Receivable- POLLUTANT SURCHARGE ACCOUNTS

Balances as of 12/31/19

Customer Name	Total Due	Current	46 - 74 Days	75 - 104 Days	>105 Days
WOODWARD AVENUE BREWERS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL POLLUTANT SURCHARGE ACCOUNTS	\$820,734.45	\$684,105.38	\$74,227.45	\$13,518.95	\$48,882.67

City of Highland Park Billings and Collections

	<u>Water</u>	<u>Sewer</u>	<u>IWC</u>	<u>Cumulative Total</u>
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 (6 Months)	626,273	2,830,400	23,886	3,480,559
FY 2020 Payments (6 Months)	<u>-</u>	<u>(656,657)</u>	<u>-</u>	<u>(656,657)</u>
				-
Balance as of December 31, 2019	<u>\$ 7,977,318</u>	<u>\$ 33,646,587</u>	<u>\$ 1,699,129</u>	<u>\$ 43,323,034</u>