

Charter Township of Waterford, Michigan

Comprehensive Annual Financial Report



**For the Fiscal Year Ended
December 31, 2018**

Charter Township of Waterford

Oakland County, Michigan

**Comprehensive Annual Financial Report
with Supplemental Information
December 31, 2018**

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June 10, 2019

To the Board of Trustees and Citizens
Charter Township of Waterford
Oakland County, Michigan

In accordance with accounting principles generally accepted in the United States, the administration is submitting the Comprehensive Annual Financial Report (CAFR) for the fiscal year ended December 31, 2018. This report has been prepared in conformance with the principles and standards for financial reporting as set forth by the Governmental Accounting Standards Board (GASB) and complies with the requirements of GASB Statement Number 34. It discusses the financial results for the year, provides information on budgetary performance, and includes information on the financial condition of Waterford Township. This report was prepared by and is the responsibility of the Township's management.

This transmittal letter provides information regarding the economy and the governing structure of Waterford Township. An overview of the Township's financial activities for the fiscal year is discussed in detail in the Management's Discussion and Analysis (MD&A) portion of the financial section of the CAFR, which should be read in conjunction with this letter.

GOVERNMENT PROFILE

Waterford Township is a charter township organized and regulated by Act 359 of 1947. Policy-making and legislative authority are vested in a seven member board. The executive function is distributed between the Township Supervisor, Clerk and Treasurer; all of whom are full time, elected officials that also sit on the Board. The remaining four members are elected at large in partisan elections and are part-time legislators. The Board is responsible for passing ordinances, determining policy, and adopting the budget.

This report covers all funds of Waterford Township. The Township provides a full range of services, including, but not limited to, police, fire, library, recreational, water and sewer.

ECONOMIC CONDITION AND OUTLOOK

The Charter Township of Waterford was established as a Charter Township in 1961 by a vote of the electorate. The Township is located in Oakland County, immediately to the west of the City of Pontiac. The Township has an area of 35.3 square miles and is traversed from east to west by M-59 (Highland Road) and from Southeast to Northwest by US-24 (Dixie Highway).

The Township is the geographic center of Oakland County. A portion of the Oakland County Government campus is located in Waterford. The Oakland Intermediate School District is also headquartered in Waterford. Oakland County International Airport (OCIA) is located in the northwest portion of the Township. The airport is a designated general aviation reliever airport serving individuals, businesses and industries in Oakland County, the State of Michigan and the nation. OCIA is ranked as the nation's twelfth busiest general aviation airport with an average of approximately 120,000 takeoffs and landings annually. More than 150 corporations base aircraft at OCIA, many with several aircraft. Over 554 aircraft are based at the airport, and their value is in excess of \$200 million. The Canadian National (formerly the Grand Trunk) Railroad traverses the Township from Southeast to Northwest. The railroad provides shipping access to several Township businesses.

According to the SEMCOG 2045 Regional Development Forecast, the major industry sectors within Waterford Township are retail trade; information and financial activities; leisure and hospitality; support & waste services; healthcare services; education services; and public administration. The industry sectors with highest percentage increase in this forecast are professional and technical services & corporate headquarters and healthcare services. Community leaders recognize that there is significant retail capacity within the region and the Township will aggressively pursue opportunities to revitalize this space and increase employment options over the next five to ten years. Further, the Township has an area wide sewer system which is connected to the Detroit system for treatment. The municipal water system is operated throughout the Township by the Department of Public Works and produces water from 19 wells located at ten different locations throughout Waterford. The Township's water and sewer system can support the economic growth of the community.

Although Waterford is primarily a residential community, several major businesses are located in the Township. Rite Aid Drug Store's regional distribution center, serving six states, operates a quarter million square foot warehouse complex. Safety Technology International is a family owned company that is a worldwide supplier of products for the fire and safety industry. Other industries within the Township include metal fabricating, screw machine productions, and manufacturers of motor parts, electronic components, industrial computers, and precision measuring instruments. Automotive assembly plants are located within minutes of the Township.

Commercial and Residential Development

While commercial development remained constant, residential development within Waterford Township began to increase significantly in 2013 after suffering from the economic downturn and high unemployment levels that plagued southeastern Michigan since 2007. Banks are once again willing to loan money for home mortgages which has helped rekindle the housing market in Waterford. Most of the vacant and foreclosed properties have been resold and are no longer holding the market down. Existing homes are selling quickly and the price of available homes appears to be increasing at a significant rate. Private home builders are once again applying for building permits for vacant lots. In 2018 Waterford Township issued approximately 16 per cent more new residential permits as it did in 2016; which is over 11 times as many as were issued in 2011 when the economic crisis was at its peak.

The following table demonstrates building permit activity within the Township over the past ten years:

Building Permits Issued

Calendar Year	Single Family Homes	Condominium Units	New Commercial	Total Permits
2018	81	0	10	616
2017	80	0	5	582
2016	69	0	4	470
2015	72	0	5	511
2014	52	0	4	442
2013	31	0	3	408
2012	16	0	3	389
2011	7	0	1	326
2010	9	0	5	491
2009	16	0	5	436

Area Demographics

Oakland County is located in the southeast portion of Michigan's Lower Peninsula. The County has an area of 910 square miles, which includes 30 cities, 10 villages and 21 townships. Within the county are 5 rivers, 423 inland lakes, numerous small streams and rolling landscapes – all of which make the area attractive to homeowners and builders.

Oakland County private sector employment outperformed the nation, the state and all major labor market areas in the state in the last decade. However, both Oakland

Area Demographics (continued)

County and Waterford Township were impacted by the trying economic environment of the nation and the state during the recession. There are signs of sustainable employment in the local economy as the monthly unemployment rate for Oakland County remained favorable from year to year being 2.7 per cent reported in May 2017 to 2.9 per cent reported in May 2018. Future job growth will be dependent on the economic recovery efforts at both the state and federal levels.

Oakland County has been AAA-Bond Rated since the mid 1990's and is considered a leader in economic development in the State of Michigan. Oakland County has consistently scored near the top of 35 U.S. counties of similar size based on leading economic indicators as compiled and studied by Donald Grimes and George Fulton from the University of Michigan.

Based on the results of the 2010 Census, the economic recession has also had an impact on the population trends in both Oakland County and Waterford Township. The County's population remained virtually unchanged between 2000 and 2010, increasing only 0.68 percent. This was the smallest increase in over a century; the average decade-to-decade population change for Oakland County since 1900 has been a 43.8 percent increase. Waterford Township experienced a 2 percent population decrease between 2000 and 2010. This was the first decade-to-decade population decrease that Waterford has experienced since the 1900 to 1910 period, when Waterford's population decreased 1.3 percent. Per the US Census Bureau, however, the percent change in population for all of Oakland County between April 2010 and July 2014 was estimated to be about 3 percent. For Waterford Township, the percent change in population during this same time period was slightly lower, at 2 percent.

FINANCIAL INFORMATION

Internal and Budgetary Control

Township administration is responsible for establishing and maintaining an internal control structure designed to ensure that the assets of the Township are protected from loss, theft or misuse and to ensure that adequate accounting data is compiled to allow for the preparation of financial statements in conformity with Generally Accepted Accounting Principles (GAAP). The internal control structure is designed to provide reasonable, rather than absolute assurance, that these objectives are met because the cost of a control should not exceed the benefits derived. The primary financial management control instrument of the Township is the annual budget. It is adopted in December each year by the Board of Trustees in accordance with the State of Michigan Uniform Budgeting Act, P.A. 621 of 1978, for use and implementation for the subsequent year. The Township's fiscal year is January through December.

Internal and Budgetary Control (continued)

Budget preparation begins in the summer of each year. Department and financial staff assess potential revenues and expenses and submit a request to the Township Supervisor. The Township Supervisor, the Budget Director and the Assistant Budget Director review all departmental requests and prepare a final recommended budget for submission to the Township Board. The Board approves appropriations on the departmental basis, which becomes the legal level of control. An encumbrance system is in place to ensure that this control is honored. All amendments to the budget must be approved by the Board throughout the fiscal year. Amounts appropriated, but not spent by the end of the fiscal year, are re-appropriated by the Board for the subsequent fiscal year.

All internal control evaluations occur within the above framework. The Township Board believes that its internal control structure adequately safeguards assets and provides reasonable assurance of the proper recording of financial information for both internal and external reporting purposes and that the financial statements are free of any material misstatements.

Long Term Financial Planning

Waterford uses a multi-year forecasting tool to assist with the long term financial planning process. The Township monitors financial trends and stays in contact with state, county and regional authorities to project major revenue categories including property taxes, state shared revenue and economic development related fees.

There was a dramatic decline in property values due to the economic recession that affected values through 2013. For 2019, property values are projected to rise modestly over time. The Headlee Amendment continues to dampen property tax revenue for the Township. In the short and intermediate future this will continue because of the low inflationary cycle.

The Library and a Fire Millage were renewed in 2012. A modest Parks and Recreation Millage request was passed by voters in August of 2014. This dedicated millage helped shore up and sustain non state mandated recreation services that are provided by the Township's Parks and Recreation Department. Public Safety had three millage renewals in 2016. These millage renewals were vital for Waterford's public safety departments to provide essential services.

Both of Waterford's pension systems, General Employees and Police and Fire, are closed to new hires. New hires participate in 401-K style defined contribution plans. These changes were made to help the Township curtail some of its long-term obligations and develop a more predictable financial model. Additionally, the Township

Long Term Financial Planning (continued)

has closed its employer sponsored retiree health care system to all but one bargaining unit. In its place new employees have a defined contribution retiree health care plan. The Township has a Retiree Health Care Trust for its defined benefit plan. The trust is vastly underfunded and will be a challenge for the Township in both the short and near term future. The Township will be paying close attention to health and pension related expenses. Changes in the federal health care policy may have a dramatic impact on future Township budgets. The Township began implementing Michigan P.A. 152 in August 2012. This Act relates to health care costs. The Township implemented the most fiscally conservative option under P.A. 152. The estimated savings were \$1.2 million annually once this option was fully implemented for all employee groups. In 2013, the Township made changes its retiree health care plan. This change was estimated to save the Township \$350,000 in the first year of implementation. Subsequently, the Township has changed its retiree prescription plan which saved an estimated \$400,000 over previous plan offerings. Volatility in the stock market could also impact, either in a positive or negative manner, the Township's funding for the defined benefit pension plans and the retiree health trust fund. The defined contribution plans for new employees are more closely aligned with private-sector benefit offerings and are expected to help the Township in its long-range planning.

Waterford Township's bond rating was upgraded in the spring of 2014 from A+/Stable to AA/Stable by Standard and Poor's (S&P) Rating Service. A bond rating to a municipality is like a FICO credit score for an individual. A high bond rating is an indication of underlying finances and financial management choices that have been made.

Major Initiatives

In August of 2018 Waterford Township voters passed a new 2.95 Special Assessment District (SAD) for Public Safety. This type of special assessment is authorized by Michigan law through Public Act 33 of 1951. The assessment is dedicated to police and fire for equipment, maintenance and operations and will be instrumental in helping the Township provide public safety in the years to come.

In late 2017, the State of Michigan enacted Public Act 202 titled, 'Protecting Local Government Retirement and Benefits Act.' The act sets standards of fundability for pension and retiree health care systems. Both of the Waterford pension systems exceed the state standards but the retiree health care system did not meet the threshold. Therefore, the Township Board was tasked with developing and submitting a Corrective Action Plan (CAP) to the State of Michigan. The State Municipal Stability Board recently approved the plan and will monitor the Waterford's compliance. Undoubtedly, the Township Board, employees, unions and the community will need to work collectively to help resolve this financial challenge.

Relevant Financial Policies

The accounting policies of the Township conform to Generally Accepted Accounting Principles (GAAP) in the United States of America as applicable to government units. Further significant policies are discussed in detail under Note 1 of the Basic Financial Statements section of the financial statements. There were no policies that have had a significant or unusual impact on the current period's financial statements. The Township continues to work closely with its auditors and actuaries and strives to adhere to all applicable accounting principles.

Cash Management

The Township's nationally certified Investment Policy adopted on April 28, 2008 includes the legal requirements for municipalities covered under Michigan Public Act 20 of 1943, as amended. It is the policy of the Charter Township of Waterford to invest public funds in a conservative manner which will ensure the preservation of capital while providing the best investment return with maximum security, meeting the daily cash flow demands of the Township. Investments are placed with institutions that are approved yearly by the Township Board and deemed to provide minimal risk to the Township's assets. Our investment portfolio currently consists of money market funds, certificates of deposit, CDARS, U.S. Treasury and other obligations of the U.S. and authorized local government pooled funds, in compliance with the Township's investment policy and Public Act 20, as amended.

Risk Management

The Charter Township of Waterford is a member of the Michigan Municipal Risk Management Authority (MMRMA). The MMRMA is a self-insured association with a membership of approximately 330 Michigan local governmental units. It provides risk management, claims administration, legal defense, and reinsurance services for its members. As a member, Waterford has liability coverage of up to \$15,000,000 per occurrence. The self-insured retention is \$100,000 per occurrence. The Township is actively involved in risk control through supervisory and employee training, facilities inspections, and utilization of the MMRMA Risk Control Staff.

Waterford Township is also self-insured for workers' compensation coverage. The Township has retained the services of Comprehensive Risk Services (CRS) as a third-party administrator to monitor and pay workers' compensation claims on its behalf. The Township, in cooperation with CRS, aggressively manages claims and works to reduce on-the-job injuries through safety training, inspections and an employee safety committee. The Township is self-insured for the first \$400,000 per occurrence in claims for Worker's Compensation events and has insurance coverage for events that exceed the \$400,000 threshold. Substantial savings are realized by being self insured but the Township needs to have adequate reserves in the event that loss events occur.

Component Units

Included in the financial statements are three discretely presented component units: Economic Development Corporation (EDC); Waterford Youth Assistance Corporation (WYA); and Veteran's Memorial Fund (VMD). Although considered separate legal entities, the component units are part of the Township's operations and are financially accountable to the Township and the Township Board has the ability to impose its will on each entity.

Independent Audit

As required by State of Michigan law, the Charter Township of Waterford accounts and financial statements have been independently audited by the accounting firm Plante & Moran, PLLC. The goal of the audit is to obtain a reasonable assurance that the financial statements contained within are free of material misstatement and accurately reflect the financial position of the Township. The auditor's report is presented as the first component of the financial section of this report.

In addition, Plante & Moran conducted the federally mandated "Single Audit" designed to meet the special needs of federal grantor agencies. This report is issued separately.

While the independent auditor has expressed an unmodified opinion of the financial statements contained in this report, management takes sole responsibility for the contents of the CAFR. To the best of its knowledge, staff believes the CAFR information is accurate in all material respects.

AWARDS AND RECOGNITIONS

The Government Finance Officers Association (GFOA) of the United States and Canada awarded a Certificate of Achievement for Excellence in Financial Reporting to the Charter Township of Waterford for its Comprehensive Annual Financial Report (CAFR) for the fiscal year ended December 31, 2017. This was the thirteenth consecutive year that the Township has achieved this prestigious award. In order to be awarded a Certificate of Achievement, a government must publish an easily readable and efficiently organized Comprehensive Annual Financial Report (CAFR). This report must satisfy both Generally Accepted Accounting Principles (GAAP) and applicable legal requirements.

A Certificate of Achievement is valid for a period of one year only. We believe that our current comprehensive annual financial report continues to meet the Certificate of Achievement Program's requirements and we are submitting it to the GFOA to determine its eligibility for another certificate.

ACKNOWLEDGEMENTS

This CAFR reflects the work and commitment of the staff members of the Supervisor's Office, the Clerk's Office, the Treasurer's Office and the Office of Fiscal & Human Resources. This document could not have been accomplished without their efforts and each contributor deserves sincere appreciation. Management would also like to express its appreciation to Plante Moran, the Township's independent auditors, who assisted and contributed to the preparation of this Comprehensive Annual Financial Report.

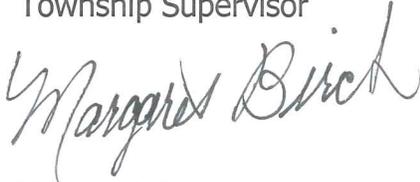
Respectfully submitted,



Gary Wall
Township Supervisor



Kim Markee
Township Clerk



Margaret Birch
Township Treasurer



Government Finance Officers Association

Certificate of
Achievement
for Excellence
in Financial
Reporting

Presented to

**Charter Township
of Waterford
Michigan**

For its Comprehensive Annual
Financial Report
for the Fiscal Year Ended

December 31, 2017

Christopher P. Morill

Executive Director/CEO



Charter Township of Waterford
Organizational Chart
Updated 07/2018

Citizens of Waterford

Board of Trustees
Gary Wall, Supervisor
Sue Camilleri, Clerk
Margaret Birch, Treasurer
Anthony Bartolotta, Trustee
Arthur Frasca, Trustee
Karen Joliat, Trustee
Steve Thomas, Trustee

(Legislative Branch)

51st District Court
(Judicial Branch)

Treasurer's Office

Supervisor's Office
(Executive Branch)

Clerk's Office

Development Services

Public Works
Water-Sewer – Branch
Facilities & Operations - Branch

Library

Fiscal & Human
Resources

Parks & Recreation

Police Department

Regional
Fire Department
(Waterford, Pontiac and
Lake Angelus).

Assessing

Information Systems

**Charter Township of Waterford
List of Principal Officials
As of December 31, 2018**

Supervisor's Office

Supervisor

Gary Wall

Clerk's Office

Clerk

Deputy Clerk

Accounting Manager

Sue Camilleri
Kari Vlaeminck
Barbara Miller

Treasurer's Office

Treasurer

Deputy Treasurer

Margaret Birch
Sandy Pulk

Assessing

Chief Assessor

Deputy Assessor

Paula Moore
Janet Laing

Development Services

Director and CDBG

Superintendent of Building

Superintendent of Planning and Zoning

Robert Merinsky
Brent Gibson
Larry Lockwood

Fire

Chief

Deputy Chief

John Lyman
Matthew Covey

Fiscal and Human Resources

Human Resources Director

Budget Director

Assistant Budget Director

Louis Feurino
Derek Diederich
Barbara Miller

Information Systems

Director

Jared Black

Library

Director

Joan Rogers

Parks and Recreation

Director

Alison Swanson

Police

Chief

Deputy Chief

Scott Underwood
Kevin Kazyak

Public Works

Director

Water and Sewer Superintendent

Administrative Superintendent

Facilities and Operations Superintendent

Engineering Superintendent

Russell Williams
Joseph Ashley
Derek Diederich
Hugo Cardenas
Dan Stickle

**Charter Township of Waterford
Labor Agreements
Year Ended December 31, 2018**

<u>Bargaining Unit</u>	<u>Expiration Date</u>	<u>Number of Employees</u>
Michigan Association of Police - Represents police officers and crime scene investigators	12/31/2017	40
Command Officers Association of Michigan - Represents police sergeants and lieutenants	12/31/2017	12
International Association of Firefighters - Represents all firefighting personnel	12/31/2018	131
Michigan Association of Police - Represents dispatchers	12/31/2019	11
Teamsters State, County, and Municipal Workers - Represents clerical, public works employees, building inspectors, and ordinance officers	12/31/2019	102

**Charter Township of Waterford
Fund Organization Chart**

Fund Name	Fund Number
General Fund	
General	101
Cemetery Care	209
Workers' Compensation	215
Special Revenue Funds	
Fire	206
Police	207
Police Restricted Use	208
Police and Fire Special Assessment District	210
Cable Commission	250
Community Development Block Grant Library	260-263
Michigan Indigent Defense	267
Library Donations	270-271
Parks & Recreation	280
Nature Center	718
Weed Control and L.I.B.	844-883
Debt Service Funds	
Police and Fire Bond Service Fund	306
Capital Projects Funds	
Improvement Revolving	246
S.A.D. Road Paving	813
Capital Project Allocation	330
Enterprise Funds	
Water and Sewer	590
Internal Service Funds	
Fire Unemployment Costs	316
Motor Pool	360
Trust and Agency Funds	
Tax Collection	703
Regular Employee Pension	731
Police and Fire Pension	732
Retiree Health Fund	733
Other Agency	701-752

Independent Auditor's Report

To the Board of Trustees
Charter Township of Waterford

Report on the Financial Statements

We have audited the accompanying financial statements of the governmental activities, the business-type activities, each major fund, the aggregate discretely presented component units, and the aggregate remaining fund information of the Charter Township of Waterford (the "Township") as of and for the year ended December 31, 2018 and the related notes to the financial statements, which collectively comprise the Charter Township of Waterford's basic financial statements, as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express opinions on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinions

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the governmental activities, the business-type activities, each major fund, the aggregate discretely presented component units, and the aggregate remaining fund information of the Charter Township of Waterford as of December 31, 2018 and the respective changes in its financial position and, where applicable, cash flows for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Emphasis of Matters

As described in Note 3 to the basic financial statements, the financial statements include investments valued at approximately \$45,000,000 (28 percent of net assets of the pension and other postemployment benefits trust funds) at December 31, 2018, whose fair values have been estimated by management in the absence of readily determinable market values. Management's estimates are based on information provided by investment managers, general partners, financial advisors, and other means. Our conclusion is not modified with respect to this matter.

To the Board of Trustees
Charter Township of Waterford

As discussed in Note 15 to the basic financial statements, in 2018, the Township adopted the provisions of Governmental Accounting Standards Board (GASB) Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions*, which established accounting and financial reporting standards for defined benefit OPEB plans provided to the employees of governmental employers. Our opinion is not modified with respect to this matter.

Other Matters

Required Supplemental Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and required supplemental information, as identified in the table of contents, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, which considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplemental information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information

Our audit was conducted for the purpose of forming an opinion on the financial statements that collectively comprise the Charter Township of Waterford's basic financial statements. The other supplemental information, as identified in the table of contents, and introductory section and statistical section schedules are presented for the purpose of additional analysis and are not a required part of the basic financial statements.

The other supplemental information, as identified in the table of contents, is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the other supplemental information, as identified in the table of contents, is fairly stated in all material respects in relation to the basic financial statements as a whole.

The introductory section and statistical section schedules have not been subjected to the auditing procedures applied in the audit of the basic financial statements, and, accordingly, we do not express an opinion or provide any assurance on them.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated June 7, 2019 on our consideration of the Charter Township of Waterford's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, grant agreements, and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Charter Township of Waterford's internal control over financial reporting and compliance.



June 7, 2019

Financial Highlights

The following represents the most significant financial highlights for the year ended December 31, 2018.

- Total 2018 General Fund revenue was \$697,055 above 2017 revenue and \$524,740 below 2010 revenue. The majority of the current year increase was attributable to a one-time adjustment from the Township's general liability carrier, a slight uptick in state-shared revenue and building and permit fees from increased construction activities. Property taxes continued to be the largest source of revenue. They were 37.97 percent of all General Fund revenue. Going forward, property tax revenue is expected to produce very modest increases, due to the limitations of the Headlee Amendment, which limits taxable property values to increases at 5 percent or the rate of inflation, whichever is smaller.
- State-shared revenue and grants, despite dramatic cuts over the past 10 to 15 years, remain an important part of the Charter Township of Waterford's (the "Township") revenue sources. During the Township's 2018 fiscal year, state revenue sources increased by \$155,612 compared to 2017. However, state revenue sharing is \$1,158,400 below the amount received in 2001, which is a loss of 15.20 percent. The reader should note that these numbers are not adjusted for inflation. The State has continued to divest itself from local governments when looking at longer trends.
- Revenue from district court fees and fines increased by \$24,426, which is a 2.2 percent increase from the previous year. District court fines and fees for 2018 were \$273,595 below the 2010 amount. This is a reduction of 19.71 percent over the past eight years.
- General Fund expenditures and operating transfers out for fiscal year 2018 were less than 2017, decreasing by \$764,313. The General Fund's largest expenditures are transfers to public safety. In 2018, the General Fund transferred \$7,752,500 to public safety (police and fire).
- The unassigned General Fund fund balance at year end was \$7,607,096. During fiscal year 2018, the General Fund unassigned fund balance increased by \$1,452,602; keep in mind that a one-time legal settlement of \$1,400,000 in 2017 played a role in this outcome on a year-to-year basis. The December 31, 2018 unassigned fund balance for the General Fund is 39.14 percent of total 2018 General Fund expenses, including transfers to public safety. Our bare minimum fund balance target is 15 percent, though bond agencies and many analysts prefer 20 to 30 percent or higher as a sign of a financially healthy municipality; this cash position has to be tempered with a community's longer-range outlook, debt ratio, and unfunded long-term liabilities, and deferred maintenance.
- The Police Fund fund balance increased by \$119,168 in fiscal year 2018. Staff reductions in prior years within the police department were the primary driver of these results. The Police Fund fund balance at December 31, 2018 is \$3,426,099, or 27.93 percent of annual expenses.
- The Fire Fund fund balance increased by \$499,128 in fiscal year 2018. In 2009, the Fire Department began EMS patient transport and invested in additional staffing and equipment. In subsequent years, the department was able to recover some of the investment via fees charged for transport services. In February 2012, the Fire Department began providing fire suppression services for the City of Pontiac, Michigan and, therefore, became a regional fire department. The new revenue helped offset some of the losses in property tax revenue. The Fire Department continues to look to grant opportunities to augment its service levels. In 2016, the Waterford Fire Department was awarded \$8.6 million over a 24-month period to hire 39 additional firefighters. This was made possible by an Assistance to Firefighters Grant from the federal government. The Township's financial staff conducted an in-house actuarial study that permitted prefunding of separation costs, which helped protect the Township's future financial interests, an important aspect of the grant as a whole. The Fire Fund fund balance at December 31, 2018 is \$2,141,671, or 11.30 percent of annual expenses. While the fund balance is a little lower than desired, the fire department and Township remain vigilant in the financial planning process.

Charter Township of Waterford

Management's Discussion and Analysis (Continued)

Using this Annual Report

This annual report consists of a series of financial statements. The statement of net position and the statement of activities provide information about the activities of the Township as a whole and present a longer-term view of the Township's finances. This longer-term view uses the accrual basis of accounting so that it can measure the cost of providing services during the current year and whether the taxpayers have funded the full cost of providing government services.

The fund financial statements present a short-term view; they tell the reader how the taxpayers' resources were spent during the year, as well as how much is available for future spending. Fund financial statements also report the Township's operations in more detail than the government-wide financial statements by providing information about the Township's most significant funds. The fiduciary fund statements provide financial information about activities for which the Township acts solely as a trustee or agent for the benefit of those outside of the government.

Township's Net Position

The following table shows, in a condensed format, the net position as of the current date and compared to the prior year:

	Governmental Activities		Business-type Activities		Total	
	2018	2017	2018	2017	2018	2017
Assets						
Current and other assets	\$ 59,350,118	\$ 52,767,683	\$ 28,042,154	\$ 27,766,309	\$ 87,392,272	\$ 80,533,992
Capital assets	52,136,615	52,659,056	110,648,887	110,078,980	162,785,502	162,738,036
Total assets	111,486,733	105,426,739	138,691,041	137,845,289	250,177,774	243,272,028
Deferred Outflows of Resources	11,993,870	181,004	1,864,836	-	13,858,706	181,004
Liabilities						
Current liabilities	1,074,798	1,078,638	1,585,257	1,439,259	2,660,055	2,517,897
Noncurrent liabilities	168,657,369	61,061,308	55,249,929	40,080,966	223,907,298	101,142,274
Total liabilities	169,732,167	62,139,946	56,835,186	41,520,225	226,567,353	103,660,171
Deferred Inflows of Resources	30,099,520	32,165,258	154,718	1,196,410	30,254,238	33,361,668
Net Position						
Net investment in capital assets	51,276,047	49,917,271	78,449,817	77,300,259	129,725,864	127,217,530
Restricted	5,027,552	5,006,923	1,572,136	2,342,415	6,599,688	7,349,338
Unrestricted	(132,654,683)	(43,621,655)	3,544,020	15,485,980	(129,110,663)	(28,135,675)
Total net position	\$ (76,351,084)	\$ 11,302,539	\$ 83,565,973	\$ 95,128,654	\$ 7,214,889	\$ 106,431,193

There was a significantly large decrease in net position in 2018 due to an accounting standard change known as GASB 75 that requires recording other postemployment benefit (OPEB) funding levels. While the Township has traditionally paid for this benefit expense on a "pay-as-you-go basis," the value of the funding level and measurement of the future promise, as determined by actuaries, are now required to be included in the Township's financial statements. The Township's combined net position decreased in 2018 due to the change described above. The governmental activities net position decreased by \$87,653,623 from the prior year, underscoring the significant unfunded liability in the Township's retiree healthcare system.

The Township finalized its obligation for the debt associated with the 1998-1999 construction of the police and fire buildings. The 20-year bond for this construction was paid off in 2018. The Township continues to pay down its debt for the 2003 water and sewer system rehabilitation projects and the 2005 capital improvement debt. The Township utilizes just 18 percent of the statutorily allowed debt.

Charter Township of Waterford

Management's Discussion and Analysis (Continued)

The following table shows the Township's major revenue and expenses as a whole for both the governmental and business-type activities. The bottom of the table shows the changes in net position during the current year in comparison to the prior year.

Total revenue for governmental activities for the year 2018 increased by \$1,717,661 from the 2017 fiscal year. The reader should keep in mind that the federal SAFER Grant in the fire department had an impact on this outcome. Looking line to line will give the reader a better understanding of the changes per activity group.

Governmental expenses were up \$5,158,630 in 2018. This change was primarily due to how unfunded liabilities in the closed defined benefit pension systems are recorded, as well as how the value of the unfunded portion of the Township's retiree healthcare program were recorded. These accounting rule changes came via GASB 68 for pensions and GASB 75 for retiree healthcare systems.

In the business-type activities (Water and Sewer Fund), revenue was up approximately \$221,510 in 2018. This was due to the charges for services category. The Water and Sewer Fund also partially prepaid \$1.5 million in 2017 for debt issued by the Water Resource Commission (WRC). This move was estimated to save the Waterford water and sewer ratepayers \$378,000 in interest over the life of the loan. The Water and Sewer Fund has more proportional debt share coming from the Clinton-Oakland Sewer System and the Oakland-Macomb Inceptor (OMI) District and would like to be able to prepay some of the upcoming debt, if possible, to help ratepayers save on long-term interest charges.

Township's Changes in Net Position

	Governmental Activities		Business-type Activities		Total	
	2018	2017	2018	2017	2018	2017
Revenue						
Program revenue:						
Charges for services	\$ 14,015,005	\$ 13,161,248	\$ 23,500,611	\$ 23,007,438	\$ 37,515,616	\$ 36,168,686
Operating grants	4,678,239	4,241,920	348,335	469,295	5,026,574	4,711,215
Capital grants	10,940	5,000	902,428	1,131,554	913,368	1,136,554
General revenue:						
Property taxes	23,246,943	22,825,673	-	-	23,246,943	22,825,673
Intergovernmental	6,603,644	6,403,176	-	-	6,603,644	6,403,176
Investment earnings	422,183	262,207	314,230	146,368	736,413	408,575
Other revenue	1,775,202	2,135,271	12,012	101,451	1,787,214	2,236,722
Total revenue	50,752,156	49,034,495	25,077,616	24,856,106	75,829,772	73,890,601
Expenses						
General government	5,361,318	9,566,130	-	-	5,361,318	9,566,130
District court	2,772,032	1,950,465	-	-	2,772,032	1,950,465
Public safety:						
Police	16,576,832	12,849,236	-	-	16,576,832	12,849,236
Fire	21,809,619	18,299,147	-	-	21,809,619	18,299,147
Building inspection	1,273,845	1,299,693	-	-	1,273,845	1,299,693
Public works	818,722	644,788	-	-	818,722	644,788
Community and economic development	1,649,321	1,237,013	-	-	1,649,321	1,237,013
Depreciation	114,406	-	-	-	114,406	-
Recreation and culture	5,146,552	4,457,445	-	-	5,146,552	4,457,445
Debt service	82,835	142,935	-	-	82,835	142,935
Water and sewer	-	-	23,539,334	22,923,487	23,539,334	22,923,487
Total expenses	55,605,482	50,446,852	23,539,334	22,923,487	79,144,816	73,370,339
Change in Net Position	\$ (4,853,326)	\$ (1,412,357)	\$ 1,538,282	\$ 1,932,619	\$ (3,315,044)	\$ 520,262

Charter Township of Waterford

Management's Discussion and Analysis (Continued)

Governmental Activities

The Township's governmental revenue totaled \$50,752,156, with the greatest revenue source being property taxes. Property taxes made up approximately 45.80 percent of total governmental revenue in 2018. That percentage is down from approximately 46.55 percent of total governmental revenue in 2017. The Pontiac fire service contract has changed the Township's revenue proportions, and the federal SAFER Grant in 2016 had a similar effect. Before 2008, property taxes had traditionally been a secure and growing revenue source for the Township. Unfortunately, due to the collapse in the housing market beginning in 2008, this secure source started to decline in 2009 through 2014. Going forward, modest increases are expected in the housing market. However, the Headlee Amendment will limit revenue growth for the Township to 5 percent or inflation, whichever is lower. Inflation is expected to rise slightly, but is projected to be low from a historical perspective in 2019 and 2020.

Total 2018 governmental expenses for the Township were approximately \$55.6 million. Of this, 69.03 percent of all expenses were in the area of police and fire service; that ratio for 2017 was 61.74 percent.

Business-type Activities

The Township's business-type activities consist of the Water and Sewer Fund. The Township provides water through a Township-owned and operated ground water system. The water system treats and disinfects water and removes iron through its water treatment and pumping facilities, as well as adds an agent to prevent corrosion in the distribution system. Sewage conveyance and treatment is provided to customers through the Township's sewer network, which discharges into Oakland County, Michigan's Sewer Interceptor and is then sent on to the Great Lakes Water Authority. Traditionally, 40 to 50 percent of the average residential sewer bill in Waterford is sent to Oakland County Water Resource Commissioner's Office and the other authorities for their services. The county maintains the sewer interceptor that Waterford's smaller mains flow into, and the regional authority treats and ultimately discharges water back into the Detroit River.

System revenue is primarily from fees paid by customers based on use. User fees made up approximately 93.71 percent of all revenue in 2018.

The business-type activities expenses totaled approximately \$23,539,334 million in 2018. In 2018, \$9.6 million was collected from sewer customers and paid to Oakland County, Michigan and the Great Lakes Water Authority for sewage conveyance, treatment, and disposal.

Financial Analysis of Individual Funds

An analysis of the Township's major funds begins with the balance sheet presentation following the government-wide financial statements. The fund financial statements provide detailed information about the most significant funds, not the Township as a whole. The township board created funds to help manage money for specific purposes, as well as to show accountability for certain activities, such as special property tax millages. The Township's major governmental funds for 2018 include the General Fund, the Police Fund, and the Fire Fund and the Police and Fire Special Assessment District. The Township's major business-type fund consists of the Water and Sewer Fund.

General Fund

The General Fund pays for most of the Township's governmental services. The two largest services funded by the General Fund are the Police Fund and Fire Fund. The General Fund transferred \$5.775 million to the Police Fund and \$1.978 million to the Fire Fund in 2018.

Other major activities in the General Fund include the 51st District Court, and all general government administrative and central services operations. Some of these activities rely on fees for services to help offset costs and some do not generate any significant service-related revenue. Many of these activities rely heavily on property taxes and state-shared revenue to subsidize their operations. Most of these services are mandated, such as tax collections, assessing, elections, and the court.

Charter Township of Waterford

Management's Discussion and Analysis (Continued)

The Township's General Fund year-end fund balance is \$10,745,737, of which \$7,607,096 is unassigned. The total of \$10,745,737 represents 55.29 percent of 2018's annual expenditures, including net of transfers to other funds. Due to an accounting rule change, the Workers' Compensation Fund and the Cemetery Care Fund were moved into the General Fund in 2011. When adjusting for the Budget Stabilization Fund of \$2,000,811, as well as the Workers' Compensation Fund amount of \$777,041 and the Cemetery Care Fund amount of \$292,193, the General Fund's fund balance at year end represented 39.5 percent of its annual expenditures in 2018. This second type of measurement is one township planners believe is a more realistic representation of the General Fund's available balance. The Workers' Compensation Fund and Cemetery Care Fund are set aside for specific purposes. This 39.5 percent also excludes \$2,000,811 in the Budget Stabilization Fund, which was created in 2013. These funds were committed by the township board for future unforeseen events. A minimum 20 to 30 percent of unassigned fund balance to annual expenditures ratio is recommended by bond rating agencies and by the Township's financial consultants. It should also be stated that cash position and liquidity are only two pieces of a municipality's financial health. The reader must also keep in mind liabilities and obligations, both of the funded and unfunded variety.

Police Fund

The Police Fund covers the operation of the police department. Major revenue includes \$5.775 million from the Township's General Fund and an additional \$6,018,019 in dedicated millage revenue for 2018, a small overall increase from 2017. The department receives a small amount of revenue from fees, grants, and interest on investments.

Overall, for fiscal year 2018, the Police Fund fund balance increased by \$119,168. This change was due primarily to lower staff levels from traditional levels and foregoing some projects. The police department employed 31 fewer staff in 2018 than it did in 2010.

Fire Fund

The Fire Fund covers the operations of fire prevention, suppression, and emergency medical services. In 2018, the department received \$1.978 million from the General Fund and approximately \$5.27 million from dedicated millages. In February 2012, the Charter Township of Waterford began a contract with the City of Pontiac, Michigan to offer fire protection service for the city. The contract is for 10 years and started at \$6.2 million per year. The Fire Fund's fund balance increased by \$499,128 in 2018. The Fire Fund's fund balance is at 11.30 percent of annual expenditures; this is a little lower than desired.

Water and Sewer Fund

The Water and Sewer Fund continues to maintain a reasonable amount of working capital. Revenue is derived from user fees and fees that are adjusted periodically to cover expenses; the fund is relatively secure. Unlike the governmental activities of the Township, the Water and Sewer Fund does not rely on tax dollars and state aid for its financial wellbeing, although the fund does look for grants and low-interest loan programs to augment system capital improvements. Water rates remain low compared to surrounding communities. The Township is almost unique in southeastern Michigan in that it has its own water system that does not rely on any other agencies for support.

Sewer increases imposed by Oakland County, Michigan and the regional authority are routinely passed on to customers. The Township belongs to the Clinton-Oakland Sewer System. Rates have also recently been adjusted to cover debt payments associated with capital improvements. The Township, like other suburban customers along with Oakland County, Michigan, routinely monitors the pending changes at the Great Lakes Water Authority. In 2017, the fund prepaid almost \$1.5 million in Water Resource Commission (WRC) allocated debt. This move saved ratepayers almost \$378,000 in interest over the life of the proposed amortization schedules. Deferred maintenance from OMI, the regional authority, and some internal assets will remain a challenge for the fund going forward, as capital projects in this area routinely are measured in the multimillion dollar range.

Increasing costs from regulations, higher standards being placed on the system by both the federal and state governments, and the need to repair and maintain an aging system require the Township to continually monitor revenue and expenditures to ensure revenue remains at an adequate level to support the required expenditures of the systems.

Reductions in staffing through attrition and early retirement incentives have reduced labor costs. In 2018, the Water and Sewer Fund was staffed at 40.25 positions compared to 52 in 2010. Increased technology and automation upgrades and labor contract changes, which encourage attendance and productivity, have allowed the water and sewer division to reduce staff while maintaining service and safety goals. The DPW continues to look for grants and low-interest loans to fund capital improvements. The DPW was awarded a Drinking Water Revolving Fund (DWRF) loan in 2013 for \$9.4 million. This program included a low-interest loan, as well as an estimated \$4 million principal loan forgiveness via a green project reserve from the EPA. This great news means almost a 40 percent savings to the Waterford water ratepaying customer. In 2015, the Water and Sewer Fund paid off nearly \$2.7 million of its Oakland-Macomb Interceptor debt and saved nearly \$870,000 in long-term interest, more good news for the Waterford sewer customer. A similar move was conducted in 2017 when \$1.5 million was partially prepaid on a WRC debt. This is estimated to save \$378,000 in interest over the life of the loan. When possible, township planners make efforts to avoid any undo interest costs, while keeping in mind a healthy capital reserve goal. The Water and Sewer Fund was also recently awarded a SAW (Storm, Asset, and Wastewater) Grant for nearly \$1 million. The Township is required to pay only 10 percent of this grant award. The grant should help the Water and Sewer Fund optimize future projects. Water rates were adjusted in 2018 to help begin a water main replacement program, as well as facilitate water treatment plant media replacement in the coming years. This will help keep the quality and integrity of the water system a high priority.

General Fund Budgetary Highlights

Township officials continue to budget conservatively. Declining property values have put a strain on the Township's primary revenue source property taxes. State, county, and regional analysis indicates that property values will modestly increase in 2019 and 2020. The Headlee Amendment will significantly hamper property tax revenue increases going forward. The Headlee Amendment limits increases in taxable value at the rate of inflation or 5 percent, whichever is lower. When the Headlee Amendment was crafted, a sustained devaluation in the housing market, like was experienced from 2008 to 2014, had never occurred. It remains uncertain, at best, if the Headlee Amendment will be modified by the State of Michigan. Slow growth and slow recovery of lost property tax revenue seem likely in the short run.

Building activity in the Township is focused primarily on redevelopment, allowing limited growth in taxable values. Construction activity is recovering somewhat, reflected in slightly increased development-based fee revenue the last few years.

When adjusting for fire employees hired for Pontiac fire service and the temporary Fire SAFER Grant employees, the Township is at early 1980s employment levels for 2018. Any new positions or changes to service levels in the short to intermediate range would likely need to come by the way of a new revenue question put before the voters. To that end, in May 2018, a Police and Fire Special Assessment District (SAD) was placed before the Waterford voters for a maximum of 2.95 mills with a length of 12 years. The voters passed this ballot question. First year revenue for 2019 was estimated at \$6,021,416. At the time of writing this analysis, the SAD did receive a legal challenge; the Township feels that it will prevail in the challenge, and the will of the voters will be fully implemented. This initiative will help add positions to the police and fire departments and help fund public safety vehicle and equipment replacements.

Charter Township of Waterford

Management's Discussion and Analysis (Continued)

Within these governmental funds, the General Fund is the most significant to understanding the Township's financial activities. In addition, the Water and Sewer Fund is a significant enterprise activity for the Township. A brief analysis of each of those funds is presented below:

Capital Assets and Debt Administration

There was a slight decrease in governmental-type capital assets of \$522,441, net of depreciation. Disposal of assets and excess equipment occurred throughout 2018 as well. (Asset activity is available in Note 4).

In business-type activities, the Township saw a net increase of \$569,907 in capital assets. There were new assets in this group as well. The overall numbers in this category reflect the Township's continued investment in its 350 miles of water and sewer mains, as well as numerous water and sewer pump stations.

The Township did not issue any construction or vehicle debt for governmental activities in 2018. The Township has been purchasing vehicles via cash for police, fire, parks and recreation, water-sewer, and facilities and operations in recent years. The Township paid off its LED installment lighting obligation in 2018. This reduced both debt on the books and saved on long-term interest as well.

In 2017, \$3,006,307 was added to the Water and Sewer Fund for bonds issued by the Oakland County Water Resource Commission for the Pontiac Waste Water Plant project. This amount was after the Township's Water and Sewer Fund partially prepaid \$1.5 million in an effort to save ratepayers on long-term interest. Allocated debt from third parties, Oakland County, Oakland-Macomb Interceptor and Great Lakes Water Authority, has become an area of real concern as these agencies attend to deferred maintenance and allocate back the proportional share to their municipal customer base. In 2018, there was a \$579,651 reduction of debt in the business-type (water-sewer) category). This reduction came via making normally scheduled payments on debt schedules. The reader should keep in mind that the Township has been notified that its share of "downstream" debt in the coming years related to the Clinton-Oakland Sewer System and the Oakland-Macomb Interceptor District could be several million dollars related to multiple projects. The Township relies on these agencies for sewer conveyance and sewer treatment and disposal. The "downstream" deferred maintenance is large, and Waterford's share as a member community is significant as well. When possible, planners attempt to prepay at least some of these debt issuances, which will save ratepayers long-term interest. When looking at the \$2,372,280 of debt that is due within one year in Note 6, it could be stated that this portion alone amounts to approximately 10 percent of the Water and Sewer Fund resources in a given year.

The Township reduced its general obligation, tax-supported, and installment debt by \$1,881,217, or 68.61 percent of the total, in fiscal year 2018. The Township maintains a very low amount of general government debt. The majority of the general government debt remaining, which is \$860,568, is related to modest capital improvements from many years ago. The debt associated with the 1998 construction of the police and fire headquarter buildings has been paid off and extinguished. The 0.65 mills associated with the debt retirement of the two public safety buildings reduced the tax burden of the township taxpayers. The Township currently maintains an extremely small amount of building and construction-related debt in its governmental funds. The reader should keep in mind that the Township owns and operates many structures, and some are nearing the end of their useful lives. In the future, deferred maintenance will need to be confronted to maintain the high level of service to the community.

Detailed information on the Township's debt can be found in the statistical section of this report, in the debt capacity schedule, in the direct and overlapping debt schedule, and in Note 6. Detailed information on the Township's capital assets can be found in Note 4.

Economic Factors

There are several economic factors that challenge the Township. The collapse of the housing market starting in 2008 through 2014 resulted in dramatic declines in taxable values, which directly affects the Township's property tax collections. These reductions in funding affect staffing and services. The housing market also impacts the demand for new construction, which resulted in a loss of building inspection and licensing fees for those years. In 2015, 2016, 2017, and 2018, building activity saw an uptick. Unemployment has improved, which is a positive. Sales tax, which is the source of state revenue sharing, has traditionally been the Township's second largest source of revenue. The Township has seen small upticks in revenue sharing from the State in the last couple of years; however, the Township remains at decade low levels of support from the State in this category.

The economy has seen some improvement in recent years, with unemployment declining and housing prices starting to steadily increase. Both sales and income taxes are increasing and should bolster state revenue. How the State of Michigan elects to distribute any new revenue remains to be seen. Property assessments have leveled off. However, sales studies are based on prior year sales, which results in a lag behind the improving market. The Headlee Amendment limits increases in property tax revenue to 5 percent or the rate of inflation, whichever is lower. In practical terms, the Township will see very small property tax revenue increases in the short and intermediate term. The reader/taxpayer can see this in practical terms on his or her respective tax statements when looking at the assessed value and comparing it to an often much smaller taxable value. It is the taxable value that is used to derive property tax bills.

State funding priorities continue to shift funding away from local governments in order to maintain state services. The State of Michigan has deferred maintenance in its own capital asset categories, most notably the public road system. Waterford received over \$1.1 million more from the State of Michigan in revenue sharing in 2001 than it did in 2018, without adjusting for inflation. When adjusting for inflation, this total in current dollars would be an estimated \$1.6 million. The overall trend of the State divesting itself in local government through the years continues.

As has been stated earlier, in 2018, the Waterford voters approved up to 2.95 mills for a Police and Fire Special Assessment (SAD) for 12 years. This assessment will help shore up staffing in the police and fire departments, as well as help the Township replace its emergency vehicles on a more regular basis. This ballot proposal has received a legal challenge as of the writing of this discussion, but the Township expects the proposal to prevail.

Legacy Benefits and Reforms

Public Act 202 of 2017, titled "Protecting Local Government Retirement Benefits Act," had standards and requirements that the Township needed to address. Pensions are required to be 60 percent funded, and the Township's two closed systems meet that standard. The retiree healthcare fund needs to be 40 percent funded, and the Township's plan does not meet that standard. Therefore, the Township was required to submit a corrective action plan (CAP). The Township was notified in May 2019 that its CAP has been approved. While this is good news and reflects a lot of hard work from staff, board members, and consultants, the CAP shows that the Township will continue to have a large issue to address. Many changes have already been implemented: closing pension systems and replacing them with 401(k)-type plans for new hires, closing the employer-sponsored retiree healthcare benefit to almost all employee groups, reforming health care for current employees to conform with PA 152 of 2011, adjusting programs of current retirees, and attempting to put more away in the Township's health trust to garner market-based earnings. Department consolidations, excess property sales, and staff reductions have also taken place. Much has been done, but more will be needed, and a combined team effort from all stakeholders will be required.

Bond Rating

Bond ratings to municipalities are like credit scores to individuals. The ratings help determine the interest rate on any debt issued by the Township, as well as offer a third-party view of financial stewardship. In March 2014, the Township had its bond rating upgraded by Standard & Poor's (S&P) from A+ to AA. This constituted two moves in the positive direction. Township officials believe the rating agency liked the fact that the Township created its first Budget Stabilization Fund in 2013 and has made subsequent deposits with some one-time revenue. S&P also liked the fact that the Township is converting its defined benefit (DB) pension retirement offerings to new employees to defined contribution (DC), 401(k)-style plans. S&P also appreciated that the Township's management utilizes a financial forecasting tool. S&P liked that the Township has created a retiree healthcare trust, but noted that it is severely underfunded and views this as an intermediate- and long-term issue that will have to be overcome.

Requests for Further Information

This financial report is intended to provide our citizens, taxpayers, customers, and investors with a general overview of the Township's finances and demonstrate the Township's accountability for the money it receives. If you have questions about this report or need additional information, please contact the office of fiscal and human resources at (248)674-6252. This financial report, the Township's budgets, pension actuary reports, and other financial information are available on the Township's website at www.waterfordmi.gov under the fiscal and human resources department. The Township posts its budgets, financial statements, citizen dashboard, and pension actuarial studies on its website for viewing by all interested parties.

The Township maintains a Citizen's Guide to Local Government Finances on its website, which is also located at www.waterfordmi.gov. This is another tool to help citizens and interested parties understand where taxes and fees are directed and utilized.

Charter Township of Waterford

Statement of Net Position

December 31, 2018

	Primary Government			Component Units
	Governmental Activities	Business-type Activities	Total	
Assets				
Cash and investments (Note 3)	\$ 42,692,020	\$ 17,828,069	\$ 60,520,089	\$ 209,278
Receivables:				
Property taxes receivable	12,987,032	-	12,987,032	-
Special assessments receivable	382,153	269,220	651,373	-
Customer receivables	-	8,193,981	8,193,981	-
Accrued interest receivable	15,000	144,616	159,616	-
Due from other governmental units	1,445,192	-	1,445,192	-
Rehabilitation loan receivable	1,125,637	-	1,125,637	-
Other receivables	556,918	34,132	591,050	-
Inventory	77,567	-	77,567	-
Prepaid items	68,599	-	68,599	-
Restricted assets	-	1,572,136	1,572,136	-
Capital assets: (Note 4)				
Assets not subject to depreciation	27,102,120	10,623,742	37,725,862	-
Assets subject to depreciation - Net	25,034,495	100,025,145	125,059,640	55,211
Total assets	111,486,733	138,691,041	250,177,774	264,489
Deferred Outflows of Resources				
Deferred pension costs (Note 7)	10,695,939	1,668,097	12,364,036	-
Deferred OPEB costs (Note 8)	1,297,931	196,739	1,494,670	-
Total deferred outflows of resources	11,993,870	1,864,836	13,858,706	-
Liabilities				
Accounts payable	427,759	1,347,669	1,775,428	1,656
Accrued liabilities and other	647,039	237,588	884,627	-
Noncurrent liabilities:				
Due within one year: (Note 6)				
Compensated absences	2,562,612	224,331	2,786,943	-
Provision for claims	420,130	45,822	465,952	-
Current portion of long-term debt	293,644	2,372,280	2,665,924	-
Due in more than one year: (Note 6)				
Compensated absences	109,559	73,783	183,342	-
Provision for claims	339,517	4,723	344,240	-
Accrued unemployment	259,967	-	259,967	-
Long-term debt	566,924	29,826,790	30,393,714	-
Net pension liability (Note 7)	30,377,098	2,431,869	32,808,967	-
Net OPEB liability (Note 8)	133,727,918	20,270,331	153,998,249	-
Total liabilities	169,732,167	56,835,186	226,567,353	1,656
Deferred Inflows of Resources				
Property taxes levied for the following year	29,387,071	-	29,387,071	-
Deferred pension cost reductions (Note 7)	712,449	154,718	867,167	-
Total deferred inflows of resources	30,099,520	154,718	30,254,238	-
Net Position				
Net investment in capital assets	51,276,047	78,449,817	129,725,864	55,211
Restricted:				
Police	1,099,370	-	1,099,370	-
Debt service	135,636	-	135,636	-
Community development	1,557,013	-	1,557,013	-
Library	1,385,719	-	1,385,719	-
Weed control	294,934	-	294,934	-
Nature center	554,880	-	554,880	-
Capital projects	-	1,572,136	1,572,136	-
Unrestricted	(132,654,683)	3,544,020	(129,110,663)	207,622
Total net position	\$ (76,351,084)	\$ 83,565,973	\$ 7,214,889	\$ 262,833

Charter Township of Waterford

Functions/Programs	Program Revenue			
	Expenses	Charges for Services	Operating Grants and Contributions	Capital Grants and Contributions
Primary government:				
Governmental activities:				
General government	\$ 5,361,318	\$ 754,514	\$ 4,350	\$ -
District court	2,772,032	1,114,223	257,134	-
Public safety:				
Police	16,576,832	113,497	694,522	10,940
Fire	21,809,619	9,322,629	2,916,423	-
Building inspections and related	1,273,845	1,142,404	-	-
Public works	818,722	54,745	6,300	-
Community and economic development	1,649,321	367,586	440,881	-
Social services	114,406	-	-	-
Recreation and culture	5,146,552	1,145,407	358,629	-
Interest on long-term debt	82,835	-	-	-
Total governmental activities	55,605,482	14,015,005	4,678,239	10,940
Business-type activities - Enterprise Fund				
- Water and Sewer Fund	23,539,334	23,500,611	348,335	902,428
Total primary government	\$ 79,144,816	\$ 37,515,616	\$ 5,026,574	\$ 913,368
Component units:				
Economic Development Corporation	\$ 437	\$ 80	\$ -	\$ -
Waterford Youth Assistance Corporation	35,752	4,175	30,262	-
Veterans Memorial Fund	2,808	1,005	-	-
Total component units	\$ 38,997	\$ 5,260	\$ 30,262	\$ -

General revenue:
 Property taxes
 Unrestricted state-shared revenue
 Unrestricted investment income
 Unrestricted cable franchise fees
 Gain on sale of capital assets
 Other miscellaneous income

Total general revenue

Change in Net Position

Net Position - Beginning of year, as restated (Note 15)

Net Position - End of year

Statement of Activities

Year Ended December 31, 2018

Primary Government			
Governmental Activities	Business-type Activities	Total	Component Units
\$ (4,602,454)	\$ -	\$ (4,602,454)	\$ -
(1,400,675)	-	(1,400,675)	-
(15,757,873)	-	(15,757,873)	-
(9,570,567)	-	(9,570,567)	-
(131,441)	-	(131,441)	-
(757,677)	-	(757,677)	-
(840,854)	-	(840,854)	-
(114,406)	-	(114,406)	-
(3,642,516)	-	(3,642,516)	-
(82,835)	-	(82,835)	-
(36,901,298)	-	(36,901,298)	-
-	1,212,040	1,212,040	-
(36,901,298)	1,212,040	(35,689,258)	-
-	-	-	(357)
-	-	-	(1,315)
-	-	-	(1,803)
-	-	-	(3,475)
23,246,943	-	23,246,943	-
6,603,644	-	6,603,644	-
422,183	314,230	736,413	2,884
1,141,743	-	1,141,743	-
22,692	12,012	34,704	-
610,767	-	610,767	-
32,047,972	326,242	32,374,214	2,884
(4,853,326)	1,538,282	(3,315,044)	(591)
(71,497,758)	82,027,691	10,529,933	263,424
\$ (76,351,084)	\$ 83,565,973	\$ 7,214,889	\$ 262,833

Charter Township of Waterford

Governmental Funds Balance Sheet

December 31, 2018

	General Fund	Police Fund	Fire Fund	Police and Fire Special Assessment District	Nonmajor Funds	Total Governmental Funds
Assets						
Cash and investments	\$ 14,281,527	\$ 6,864,950	\$ 5,172,353	\$ 3,401,567	\$ 12,369,357	\$ 42,089,754
Receivables:						
Property taxes receivable	3,691,563	2,843,082	2,489,731	2,620,887	1,341,769	12,987,032
Special assessments receivable	201,072	-	-	-	181,081	382,153
Accrued interest receivable	15,000	-	-	-	-	15,000
Due from other governmental units	1,124,185	30,503	137,957	-	152,547	1,445,192
Rehabilitation loan receivable	-	-	-	-	1,125,637	1,125,637
Other receivables	225,797	193,277	126,439	-	11,405	556,918
Due from other funds	46,993	-	-	-	-	46,993
Prepaid items	68,596	-	3	-	-	68,599
Total assets	\$ 19,654,733	\$ 9,931,812	\$ 7,926,483	\$ 6,022,454	\$ 15,181,796	\$ 58,717,278
Liabilities						
Accounts payable	\$ 209,203	\$ 45,292	\$ 86,596	\$ -	\$ 83,542	\$ 424,633
Due to other funds	-	-	-	-	46,993	46,993
Accrued liabilities and other	115,220	232,837	244,624	-	48,192	640,873
Total liabilities	324,423	278,129	331,220	-	178,727	1,112,499
Deferred Inflows of Resources						
Unavailable revenue	87,657	-	-	-	1,195,028	1,282,685
Property taxes levied for the following year	8,496,916	6,227,584	5,453,592	6,022,454	3,186,525	29,387,071
Total deferred inflows of resources	8,584,573	6,227,584	5,453,592	6,022,454	4,381,553	30,669,756
Total liabilities and deferred inflows of resources	8,908,996	6,505,713	5,784,812	6,022,454	4,560,280	31,782,255

Charter Township of Waterford

Governmental Funds Balance Sheet (Continued)

December 31, 2018

	General Fund	Police Fund	Fire Fund	Police and Fire Special Assessment District	Nonmajor Funds	Total Governmental Funds
Fund Balances						
Nonspendable - Prepays	\$ 68,596	\$ -	\$ 3	\$ -	\$ -	\$ 68,599
Restricted:						
Police	-	-	-	-	1,099,370	1,099,370
Debt service	-	-	-	-	135,636	135,636
Community development	-	-	-	-	431,376	431,376
Library	-	-	-	-	1,385,719	1,385,719
Weed control	-	-	-	-	294,934	294,934
Nature center	-	-	-	-	554,880	554,880
Committed:						
Cemetery care	292,193	-	-	-	-	292,193
Workers' compensation	777,041	-	-	-	-	777,041
Budget stabilization	2,000,811	-	-	-	-	2,000,811
Capital projects - General	-	-	-	-	426,514	426,514
Capital projects - Fire	-	-	-	-	444,087	444,087
Capital projects - Parks and recreation	-	-	-	-	183,790	183,790
Assigned:						
Cable-related projects	-	-	-	-	783,034	783,034
Police	-	3,426,099	-	-	-	3,426,099
Fire	-	-	2,141,668	-	-	2,141,668
Community development	-	-	-	-	200,000	200,000
Capital projects	-	-	-	-	3,528,527	3,528,527
Parks and recreation	-	-	-	-	1,153,649	1,153,649
Unassigned	7,607,096	-	-	-	-	7,607,096
Total fund balances	10,745,737	3,426,099	2,141,671	-	10,621,516	26,935,023
Total liabilities, deferred inflows of resources, and fund balances	<u>\$ 19,654,733</u>	<u>\$ 9,931,812</u>	<u>\$ 7,926,483</u>	<u>\$ 6,022,454</u>	<u>\$ 15,181,796</u>	<u>\$ 58,717,278</u>

Charter Township of Waterford

Governmental Funds Reconciliation of the Balance Sheet to the Statement of Net Position

December 31, 2018

Fund Balances Reported in Governmental Funds	\$ 26,935,023
Amounts reported for governmental activities in the statement of net position are different because:	
Capital assets used in governmental activities are not financial resources and are not reported in the funds	51,364,286
Receivables that are not collected soon after year end are not available to pay for current period expenditures and, therefore, are reported as unavailable revenue in the funds	1,282,685
Bonds payable and capital lease obligations are not due and payable in the current period and are not reported in the funds	(508,273)
Accrued interest is not due and payable in the current period and is not reported in the funds	(2,201)
Some employee fringe benefits are payable over a long period of years and do not represent a claim on current financial resources; therefore, they are not reported as fund liabilities:	
Employee compensated absences	(2,672,171)
Pension benefits	(20,393,608)
Retiree healthcare benefits	(132,429,987)
Other long-term liabilities, such as claims and judgments, do not present a claim on current financial resources and are not reported as fund liabilities	(759,647)
Internal service funds are included as part of governmental activities	<u>832,809</u>
Net Position of Governmental Activities	<u>\$ (76,351,084)</u>

Charter Township of Waterford

Governmental Funds

Statement of Revenue, Expenditures, and Changes in Fund Balances

Year Ended December 31, 2018

	General Fund	Police Fund	Fire Fund	Police and Fire Special Assessment District	Nonmajor Funds	Total Governmental Funds
Revenue						
Property taxes	\$ 7,804,350	\$ 6,018,019	\$ 5,270,138	\$ -	\$ 4,149,507	\$ 23,242,014
Special assessments	-	-	-	-	322,266	322,266
Intergovernmental:						
Federal grants	-	70,761	2,916,423	-	537,708	3,524,892
State-shared revenue and grants	6,747,777	30,806	25,008	-	705,228	7,508,819
Charges for services	1,212,278	33,751	9,308,382	-	936,269	11,490,680
Fines and forfeitures	1,309,074	79,746	-	-	187,845	1,576,665
Licenses and permits	1,157,397	39,703	-	-	29,393	1,226,493
Investment income	648,905	76,707	57,183	-	137,009	919,804
Other revenue:						
Local contributions	-	-	-	-	33,710	33,710
Other miscellaneous income	102,709	258,782	124,935	-	48,086	534,512
Cable franchise fees	1,016,152	-	-	-	133,372	1,149,524
Refunds and reimbursements	554,270	-	18,597	-	-	572,867
Total revenue	<u>20,552,912</u>	<u>6,608,275</u>	<u>17,720,666</u>	<u>-</u>	<u>7,220,393</u>	<u>52,102,246</u>
Expenditures						
Current services:						
General government	5,411,758	-	-	-	410,393	5,822,151
District court	2,440,936	-	-	-	-	2,440,936
Public safety:						
Police	39,050	12,242,029	-	-	646,014	12,927,093
Fire	-	-	18,593,923	-	-	18,593,923
Building inspection	1,225,550	-	-	-	32,865	1,258,415
Public works	-	-	-	-	179,578	179,578
Community and economic development	975,879	-	-	-	500,101	1,475,980
Recreation and culture	-	-	-	-	3,793,252	3,793,252
Capital outlay	250,033	26,645	360,115	-	731,469	1,368,262
Debt service	183,279	-	-	-	1,609,939	1,793,218
Total expenditures	<u>10,526,485</u>	<u>12,268,674</u>	<u>18,954,038</u>	<u>-</u>	<u>7,903,611</u>	<u>49,652,808</u>
Excess of Revenue Over (Under) Expenditures	10,026,427	(5,660,399)	(1,233,372)	-	(683,218)	2,449,438
Other Financing Sources (Uses)						
Transfers in	-	5,775,000	1,977,500	-	1,450,000	9,202,500
Transfers out	(8,907,500)	-	(250,000)	-	(45,000)	(9,202,500)
Sale of capital assets	-	4,567	5,000	-	3,900	13,467
Total other financing (uses) sources	<u>(8,907,500)</u>	<u>5,779,567</u>	<u>1,732,500</u>	<u>-</u>	<u>1,408,900</u>	<u>13,467</u>
Net Change in Fund Balances	1,118,927	119,168	499,128	-	725,682	2,462,905
Fund Balances - Beginning of year	<u>9,626,810</u>	<u>3,306,931</u>	<u>1,642,543</u>	<u>-</u>	<u>9,895,834</u>	<u>24,472,118</u>
Fund Balances - End of year	<u><u>\$ 10,745,737</u></u>	<u><u>\$ 3,426,099</u></u>	<u><u>\$ 2,141,671</u></u>	<u><u>\$ -</u></u>	<u><u>\$ 10,621,516</u></u>	<u><u>\$ 26,935,023</u></u>

Charter Township of Waterford

Governmental Funds

Reconciliation of the Statement of Revenue, Expenditures, and Changes in Fund Balances to the Statement of Activities

Year Ended December 31, 2018

Net Change in Fund Balances Reported in Governmental Funds	\$ 2,462,905
Amounts reported for governmental activities in the statement of activities are different because:	
Governmental funds report capital outlays as expenditures; however, in the statement of activities, these costs are allocated over their estimated useful lives as depreciation:	
Capital outlay	1,732,409
Depreciation expense	(2,049,582)
Net book value of assets disposed of	(76,785)
Revenue in the statement of activities that does not provide current financial resources is not reported as revenue in the funds until it is available	18,834
Repayment of bond principal is an expenditure in the governmental funds, but not in the statement of activities (where it reduces long-term debt)	1,710,003
Interest expense is recognized in the government-wide statements as it accrues	8,444
Some employee costs (pension, OPEB, and compensated absences) do not require the use of current financial resources and, therefore, are not reported as expenditures in the governmental funds	(8,780,871)
Claims and similar costs that do not use current financial resources are not reported as expenditures in the governmental funds	45,746
Internal service funds are included as part of governmental activities	<u>75,571</u>
Change in Net Position of Governmental Activities	<u><u>\$ (4,853,326)</u></u>

Charter Township of Waterford

Proprietary Funds Statement of Net Position

December 31, 2018

	Enterprise Funds Water and Sewer Fund	Governmental Activities Internal Service Funds
Assets		
Current assets:		
Cash and investments (Note 3)	\$ 17,828,069	\$ 602,266
Receivables:		
Special assessments receivable - Due within one year	269,220	-
Customer receivables	8,193,981	-
Accrued interest receivable	144,616	-
Other receivables	34,132	-
Inventory	-	77,567
Total current assets	26,470,018	679,833
Noncurrent assets:		
Restricted assets	1,572,136	-
Capital assets: (Note 4)		
Assets not subject to depreciation	10,623,742	-
Assets subject to depreciation - Net	100,025,145	772,329
Total noncurrent assets	112,221,023	772,329
Total assets	138,691,041	1,452,162
Deferred Outflows of Resources		
Deferred pension costs (Note 7)	1,668,097	-
Deferred OPEB costs (Note 8)	196,739	-
Total deferred outflows of resources	1,864,836	-
Liabilities		
Current liabilities:		
Accounts payable	1,347,669	3,126
Accrued liabilities and other	237,588	3,965
Compensated absences	224,331	-
Provision for claims	45,822	-
Current portion of long-term debt (Note 6)	2,372,280	174,482
Total current liabilities	4,227,690	181,573
Noncurrent liabilities:		
Compensated absences	73,783	-
Provision for claims	4,723	-
Accrued unemployment	-	259,967
Net pension liability	2,431,869	-
Net OPEB liability	20,270,331	-
Long-term debt (Note 6)	29,826,790	177,813
Total noncurrent liabilities	52,607,496	437,780
Total liabilities	56,835,186	619,353
Deferred Inflows of Resources - Deferred pension costs	154,718	-
Net Position		
Net investment in capital assets	78,449,817	420,034
Restricted - Capital projects	1,572,136	-
Unrestricted	3,544,020	412,775
Total net position	\$ 83,565,973	\$ 832,809

Charter Township of Waterford

Proprietary Funds Statement of Revenue, Expenses, and Changes in Net Position

Year Ended December 31, 2018

	Enterprise Funds	Governmental Activities
	Water and Sewer Fund	Internal Service Funds
Operating Revenue		
Sale of water	\$ 5,818,649	\$ -
Sewage disposal charges	17,205,120	-
Other sales to customers	42,682	-
Charges for services	434,160	224,073
Operating grants	348,335	123,398
Total operating revenue	23,848,946	347,471
Operating Expenses		
Cost of water	1,710,431	-
Cost of sewage treatment	9,980,975	-
Other operating and maintenance costs	1,041,300	-
Billing and administrative costs	4,795,245	15,720
Unemployment costs	-	124,175
Depreciation	5,286,323	138,848
Total operating expenses	22,814,274	278,743
Operating Income	1,034,672	68,728
Nonoperating Revenue (Expense)		
Investment income	314,230	5,682
Interest expense	(725,060)	(8,064)
Gain on sale of assets	12,012	9,225
Total nonoperating (expense) revenue	(398,818)	6,843
Income - Before capital contributions	635,854	75,571
Capital Contributions		
Capital grants	113,641	-
Benefit fees	345,521	-
Lines donated by developers	443,266	-
Total capital contributions	902,428	-
Change in Net Position	1,538,282	75,571
Net Position - Beginning of year, as restated (Note 15)	82,027,691	757,238
Net Position - End of year	\$ 83,565,973	\$ 832,809

Charter Township of Waterford

Proprietary Funds Statement of Cash Flows

Year Ended December 31, 2018

	Enterprise Funds	Governmental Activities
	Water and Sewer Fund	Internal Service Funds
Cash Flows from Operating Activities		
Receipts from customers	\$ 23,135,367	\$ 224,073
Payments to suppliers	(12,775,584)	(35,059)
Payments to employees and fringes	(3,916,752)	-
Claims paid	(88,346)	-
Other payments	(22,328)	-
Operating grants	348,335	123,398
	<u>6,680,692</u>	<u>312,412</u>
Net cash and cash equivalents provided by operating activities	6,680,692	312,412
Cash Flows from Capital and Related Financing Activities		
Special assessment collections	36,337	-
Benefit fees	345,521	-
Proceeds from sale of capital assets	12,012	9,225
Purchase of capital assets	(4,437,125)	(10,365)
Principal and interest paid on capital debt	(1,398,736)	(181,206)
	<u>(5,441,991)</u>	<u>(182,346)</u>
Net cash and cash equivalents used in capital and related financing activities	(5,441,991)	(182,346)
Cash Flows from Investing Activities		
Interest received on investments	225,204	5,682
Purchases of investment securities	(115,885)	-
	<u>109,319</u>	<u>5,682</u>
Net cash and cash equivalents provided by investing activities	109,319	5,682
Net Increase in Cash and Cash Equivalents	1,348,020	135,748
Cash and Cash Equivalents - Beginning of year	7,560,915	466,518
Cash and Cash Equivalents - End of year	<u><u>\$ 8,908,935</u></u>	<u><u>\$ 602,266</u></u>
Classification of Cash and Cash Equivalents		
Cash and investments	\$ 17,828,069	\$ 602,266
Less amounts classified as investments	(8,919,134)	-
	<u><u>\$ 8,908,935</u></u>	<u><u>\$ 602,266</u></u>
Total cash and cash equivalents	<u><u>\$ 8,908,935</u></u>	<u><u>\$ 602,266</u></u>

**Proprietary Funds
Statement of Cash Flows (Continued)**

Year Ended December 31, 2018

	Enterprise Funds	Governmental Activities
	Water and Sewer Fund	Internal Service Funds
Reconciliation of Operating Income to Net Cash from Operating Activities		
Operating income	\$ 1,034,672	\$ 68,728
Adjustments to reconcile operating income to net cash from operating activities:		
Depreciation	5,286,323	138,848
Changes in assets and liabilities:		
Receivables	(426,276)	-
Inventories	-	3,099
Prepaid and other assets	148,651	-
Accrued and other liabilities	535,353	-
Accounts payable	190,315	(22,438)
Estimated claims liability	(88,346)	124,175
Total adjustments	5,646,020	243,684
Net cash and cash equivalents provided by operating activities	\$ 6,680,692	\$ 312,412

Noncash Investing, Capital, and Financing Activities - During the year ended December 31, 2018, the Water and Sewer Fund received approximately \$443,000 of lines donated by developers. In addition, Oakland County, Michigan constructed approximately \$2.6 million of sewer lines for the Oakland-Macomb Interceptor and the Clinton River Water Resource Recovery Drainage District projects, for which the Township incurred long-term debt of approximately \$1.8 million, received capital grants of approximately \$114,000, and reduced restricted assets by approximately \$788,000.

Charter Township of Waterford

**Fiduciary Funds
Statement of Fiduciary Net Position**

December 31, 2018

	Pension and Other Postemployment Benefits	Agency Funds
Assets		
Cash and cash equivalents	\$ 1,658,437	\$ 2,697,167
Investments:		
Fixed-income funds	16,739,454	-
Publicly traded partnerships	12,741,526	-
Stocks	70,119,862	-
Mutual funds	44,493,794	-
Real estate investment trusts	9,057,624	-
Pension manager short-term funds	5,137,124	-
Securities lending short-term collateral bank investment pool - Mutual funds	880,299	-
Prepaid items	865,298	-
Due from broker	601,066	-
Accrued income	63,770	-
	162,358,254	\$ 2,697,167
Liabilities		
Accounts payable	772,005	\$ -
Due to other governmental units	-	1,556,542
Bonds and other deposits	-	1,048,366
Accrued liabilities and other	-	92,259
Obligations under securities lending agreements	923,799	-
	1,695,804	\$ 2,697,167
Net Position Restricted for Pension and Other Postemployment Benefits	\$ 160,662,450	

Charter Township of Waterford

Fiduciary Funds
Statement of Changes in Fiduciary Net Position
Pension and Other Postemployment Benefits

Year Ended December 31, 2018

Additions

Investment income (loss):	
Interest and dividends	\$ 5,130,081
Net increase in fair value of investments	<u>(14,362,749)</u>
Net investment loss	(9,232,668)
Contributions:	
Employer contributions	10,538,395
Employee contributions	<u>425,690</u>
Total contributions	<u>10,964,085</u>
Total additions	1,731,417

Deductions

Benefit payments	16,790,111
Administrative expenses	<u>1,026,753</u>
Total deductions	<u>17,816,864</u>

Net Decrease in Net Position

(16,085,447)

Net Position Restricted for Pension and Other Postemployment Benefits - Beginning of year

176,747,897

Net Position Restricted for Pension and Other Postemployment Benefits - End of year

\$ 160,662,450

Charter Township of Waterford

**Component Units
Statement of Net Position**

December 31, 2018

	Economic Development Corporation	Waterford Youth Assistance Corporation	Veterans Memorial Fund	Total
Assets				
Cash and investments	\$ 140,199	\$ 63,781	\$ 5,298	\$ 209,278
Capital assets subject to depreciation - Net	-	-	55,211	55,211
Total assets	140,199	63,781	60,509	264,489
Liabilities - Accounts payable	-	1,507	149	1,656
Net Position				
Net investment in capital assets	-	-	55,211	55,211
Unrestricted	140,199	62,274	5,149	207,622
Total net position	\$ 140,199	\$ 62,274	\$ 60,360	\$ 262,833

Charter Township of Waterford

	Program Revenue			
	Expenses	Charges for Services	Operating Grants and Contributions	Capital Grants and Contributions
Functions/Programs				
Economic Development Corporation	\$ 437	\$ 80	\$ -	\$ -
Waterford Youth Assistance Corporation	35,752	4,175	30,262	-
Veterans Memorial Fund	2,808	1,005	-	-
Total component units	<u><u>\$ 38,997</u></u>	<u><u>\$ 5,260</u></u>	<u><u>\$ 30,262</u></u>	<u><u>\$ -</u></u>

General revenue - Investment income

Change in Net Position

Net Position - Beginning of year

Net Position - End of year

Component Units
Statement of Activities

Year Ended December 31, 2018

Net (Expense) Revenue and Changes in Net Position			
Economic Development Corporation	Waterford Youth Assistance Corporation	Veterans Memorial Fund	Total
\$ (357)	\$ -	\$ -	\$ (357)
-	(1,315)	-	(1,315)
-	-	(1,803)	(1,803)
(357)	(1,315)	(1,803)	(3,475)
1,921	963	-	2,884
1,564	(352)	(1,803)	(591)
138,635	62,626	62,163	263,424
\$ 140,199	\$ 62,274	\$ 60,360	\$ 262,833

Note 1 - Significant Accounting Policies

Accounting and Reporting Principles

The Charter Township of Waterford (the "Township") follows accounting principles generally accepted in the United States of America (GAAP), as applicable to governmental units. Accounting and financial reporting pronouncements are promulgated by the Governmental Accounting Standards Board. The following is a summary of the significant accounting policies used by the Township:

Reporting Entity

The Township is governed by an elected seven-member board of trustees. The accompanying financial statements present the Township and its component units, entities for which the Township is considered to be financially accountable. Blended component units are, in substance, part of the Township's operations, even though they are separate legal entities. Thus, blended component units are appropriately presented as funds of the Township. Discretely presented component units are reported in a separate column in the government-wide financial statements to emphasize that they are legally separate from the Township (see discussion below for description).

The Charter Township of Waterford's Police and Fire Retirement System, the Charter Township of Waterford's General Employees' Retirement System, and Other Postemployment Benefit Trust Fund have been blended into the Township's financial statements. These systems are governed by a five-member pension board that includes the township treasurer, two elected individuals chosen by the township board, and two members of the retirement systems that are elected by members of the retirement systems. The systems are reported as if they were part of the primary government because of the fiduciary responsibility that the Township retains relative to the operations of each system. The operations of the Police and Fire Retirement System, the General Employees' Retirement System, and Other Postemployment Benefit Trust Fund are reported as pension and other postemployment benefit trust funds.

Blended Component Units

The Cable Commission is governed by a seven-member board appointed by the township board. Although it is legally separate from the Township, the Cable Commission is reported as if it were part of the primary government because its sole purpose is to perform cable-related activities on behalf of the Township.

The 51st District Court is governed by a chief judge. Although it is legally separate from the Township, the 51st District Court is reported as if it were part of the primary government because its sole purpose is to perform court-related activities on behalf of the Township.

Discretely Presented Component Units

The following component units are reported within the component units column in the financial statements. They are reported in a separate column in the government-wide financial statements to emphasize that they are legally separate from the Township. The component units do not issue separate financial statements.

Waterford Youth Assistance Corporation

The Waterford Youth Assistance Corporation was created to mobilize community interest and forces toward youth and family adjustment and to aid in the prevention of juvenile delinquency and neglect. The Waterford Youth Assistance Corporation's governing body is appointed by the township board. The Township also has the ability to impose its will on the component unit.

Note 1 - Significant Accounting Policies (Continued)

Economic Development Corporation

The Economic Development Corporation was created to provide means and methods for the encouragement and assistance of industrial and commercial enterprises in relocating, purchasing, constructing, improving, or expanding within the Township so as to provide needed services and facilities of such enterprises to the residents of the Township. The Economic Development Corporation's governing body, which consists of 11 individuals, is selected by the supervisor and approved by the township board. The Township also has the ability to impose its will on the component unit.

Veterans Memorial Fund

The Veterans Memorial Fund was created for the sole purpose of building and maintaining a memorial to all veterans who have served honorably in the military service of the United States. The Veterans Memorial Fund's governing body, which consists of five individuals, is selected by the supervisor and approved by the township board. The Township also has the ability to impose its will on the component unit.

Report Presentation

Governmental accounting principles require that financial reports include two different perspectives - the government-wide perspective and the fund-based perspective. The government-wide financial statements (i.e., the statement of net position and the statement of activities) report information on all of the nonfiduciary activities of the primary government and its component units. The government-wide financial statements are presented on the economic resources measurement focus and the full accrual basis of accounting. Property taxes are recognized as revenue in the year for which they are levied. Grants and similar items are recognized as revenue as soon as all eligibility requirements imposed by the provider have been met. The statements also present a schedule reconciling these amounts to the modified accrual-based presentation found in the fund-based statements.

The statement of activities demonstrates the degree to which the direct expenses of a given function or segment are offset by program revenue. Direct expenses are those that are clearly identifiable with a specific function or segment. Program revenue includes: (1) charges to customers or applicants for goods, services, or privileges provided; (2) operating grants and contributions; and (3) capital grants and contributions, including special assessments. Taxes and other items not properly included among program revenue are reported instead as general revenue.

For the most part, the effect of interfund activity has been removed from these statements. Exceptions to this general rule are charges between the Township's water and sewer function and various other functions of the Township. Eliminations of these charges would distort the direct costs and program revenue reported for the various functions concerned.

Separate financial statements are provided for governmental funds, proprietary funds, and fiduciary funds, even though the latter are excluded from the government-wide financial statements. Major individual governmental funds and major individual enterprise funds are reported as separate columns in the fund financial statements.

Basis of Accounting

The governmental funds use the current financial resources measurement focus and the modified accrual basis of accounting. This basis of accounting is intended to better demonstrate accountability for how the government has spent its resources.

Note 1 - Significant Accounting Policies (Continued)

Expenditures are reported when the goods are received or the services are rendered. Capital outlays are reported as expenditures (rather than as capital assets) because they reduce the ability to spend resources in the future; conversely, employee benefit costs that will be funded in the future (such as pension and retiree healthcare-related costs or sick and vacation pay) are not counted until they come due for payment. In addition, debt service expenditures, claims, and judgments are recorded only when payment is due.

Revenue is not recognized until it is collected or collected soon enough after the end of the year that it is available to pay for obligations outstanding at the end of the year. For this purpose, the Township considers amounts collected within 60 days of year end to be available for recognition. The following major revenue sources meet the availability criterion: state-shared revenue, district court fines, and interest associated with the current fiscal period. Conversely, special assessments and federal grant reimbursements will be collected after the period of availability; receivables have been recorded for these, along with a "deferred inflow."

Proprietary funds and fiduciary funds use the economic resources measurement focus and the full accrual basis of accounting. Revenue is recorded when earned, and expenses are recorded when a liability is incurred, regardless of the timing of related cash flows.

Fund Accounting

The Township accounts for its various activities in several different funds in order to demonstrate accountability for how we have spent certain resources; separate funds allow us to show the particular expenditures for which specific revenue was used. The various funds are aggregated into three broad fund types:

Governmental Funds

Governmental funds include all activities that provide general governmental services that are not business-type activities. This includes the General Fund, special revenue funds, debt service funds, capital project funds, and permanent funds. The Township reports the following funds as "major" governmental funds:

- The General Fund is the primary operating fund because it accounts for all financial resources used to provide government services other than those specifically assigned to another fund.
- The Police Fund accounts for the operations of the law enforcement activities of the Township. Funding is provided primarily through a local property tax levy and through transfers in from the General Fund.
- The Fire Fund accounts for the operations of the fire department of the Township. Funding is provided primarily through a local property tax levy and through transfers in from the General Fund.
- The Police and Fire Special Assessment District Fund accounts for the operations of the police and the fire department of the Township. Funding is provided primarily through a local property tax levy. The property tax levy is new and was first levied on December 1, 2018 and is expected to be reported as revenue and related expenditures in the year ending December 31, 2019.

Proprietary Funds

Proprietary funds include enterprise funds (which provide goods or services to users in exchange for charges or fees) and internal service funds (which provide goods or services to other funds of the Township). The Township reports the following fund as a "major" enterprise fund:

- The Water and Sewer Fund provides water to customers and disposes of sanitary sewage in exchange for quarterly user charges.

Note 1 - Significant Accounting Policies (Continued)

The Township's internal service funds are used to account for the financing of goods and services provided by one department to other departments of the Township on a cost reimbursement basis. The Township utilizes internal services funds to account for motor pool activities and fire unemployment costs.

Fiduciary Funds

Fiduciary funds include amounts held in a fiduciary capacity for others. These amounts will not be used to operate our government's programs. Activities that are reported as fiduciary include the following:

- The Pension and Other Employee Benefits Trust funds, which account for the activities of the employee benefit plans that accumulate resources for pension and other postemployment benefit payments to qualified employees.
- The agency funds, which record primarily tax collections received and remitted to other units of government (the county, community college, school district, etc.), as well as building bonds and deposits, held for temporary periods. The agency funds are custodial in nature (assets equal liabilities) and do not involve the measurement or results of operations.

Interfund Activity

During the course of operations, the Township has activity between funds for various purposes. Any residual balances outstanding at year end are reported as due from/to other funds and advances to/from other funds. While these balances are reported in fund financial statements, certain eliminations are made in the preparation of the government-wide financial statements. Balances between the funds included in governmental activities (i.e., the governmental and internal service funds) are eliminated so that only the net amount is included as internal balances in the governmental activities column. Similarly, balances between the funds included in business-type activities (i.e., the enterprise funds) are eliminated so that only the net amount is included as internal balances in the business-type activities column.

Furthermore, certain activity occurs during the year involving transfers of resources between funds. In fund financial statements, these amounts are reported at gross amounts as transfers in/out. While reported in fund financial statements, certain eliminations are made in the preparation of the government-wide financial statements. Transfers between the funds included in governmental activities are eliminated so that only the net amount is included as transfers in the governmental activities column. Similarly, balances between the funds included in business-type activities are eliminated so that only the net amount is included as transfers in the business-type activities column.

Specific Balances and Transactions

Cash and Investments

Cash and cash equivalents include cash on hand, demand deposits, and short-term investments with a maturity of three months or less when acquired. Investments are stated at fair value.

Prepaid Items

Certain payments to vendors reflect costs applicable to future fiscal years and are recorded as prepaid items in both government-wide and fund financial statements. The cost of prepaid items is recorded as expenditures/expenses when consumed rather than when purchased.

Restricted Assets

The Township has \$1,572,136 on deposit at the county that is being held for certain projects of the Water and Sewer Fund.

Note 1 - Significant Accounting Policies (Continued)

Capital Assets

Capital assets, which include property, plant, equipment, intangible assets, and infrastructure assets (e.g., roads, bridges, sidewalks, and similar items), are reported in the applicable governmental or business-type activities column in the government-wide financial statements. Capital assets are defined by the Township as assets with an initial individual cost of more than \$5,000 for personal property, \$10,000 for infrastructure, \$50,000 for buildings and improvements, \$75,000 for intangible assets, and no threshold for land, land improvements, telecommunications equipment, and library books with an estimated useful life in excess of one year. Such assets are recorded at historical cost or estimated historical cost if purchased or constructed. Donated capital assets are recorded at estimated acquisition value at the date of donation.

Interest incurred during the construction of capital assets of business-type activities is included as part of the capitalized value of the assets constructed.

Infrastructure, intangibles, buildings, equipment, and vehicles are depreciated using the straight-line method over the following useful lives:

<u>Capital Asset Class</u>	<u>Depreciable Life - Years</u>
Buildings and improvements	10 - 40
Infrastructure	20 - 40
Lines and laterals	75
Machinery and office equipment, vehicles, and other	3 - 15

Long-term Obligations

In the government-wide financial statements and the proprietary fund types in the fund financial statements, long-term debt and other long-term obligations are reported as liabilities in the applicable governmental activities, business-type activities, or proprietary fund-type statement of net position. Bond premiums and discounts are deferred and amortized over the life of the bonds using the effective interest method. Bonds payable are reported net of the applicable bond premium or discount. Bond issuance costs are expensed at the time they are incurred. In the fund financial statements, governmental fund types recognize bond issuances as an "other financing source," as well as bond premiums and discounts. The General Fund and debt service funds are generally used to liquidate governmental long-term debt.

For the governmental activities, claims and judgments, net pension liability, and net other postemployment benefit liability are generally liquidated by the General, Police, Fire, and Library funds related to employee salaries and fringes. Additionally, for the business-type activities, compensated absences, net pension liability, and net other postemployment benefit liability are generally liquidated by the Water and Sewer Fund for employee salaries and fringes.

Deferred Outflows/Inflows of Resources

In addition to assets, the statement of net position will sometimes report a separate section for deferred outflows of resources. This separate financial statement element represents a consumption of net position that applies to a future period and will not be recognized as an outflow of resources (expense/expenditure) until then. The Township reports deferred outflows of resources related to the defined benefit pension plans and other postemployment benefit plan. The deferred outflows of resources related to the defined benefit pension plans and other postemployment benefit plan are reported in the government-wide financial statements and the Water and Sewer Fund (see Notes 7 and 8 for details).

Note 1 - Significant Accounting Policies (Continued)

In addition to liabilities, the statement of net position will sometimes report a separate section for deferred inflows of resources. This separate financial statement element represents an acquisition of net position that applies to a future period and will not be recognized as an inflow of resources (revenue) until that time. Property taxes levied for the following year qualify for reporting in this category. The governmental funds also report unavailable revenue from grants and other sources. These amounts are deferred and recognized as an inflow of resources in the period that the amounts become available. The Township also reports deferred inflows of resources related to the defined benefit pension plans. The deferred inflows of resources related to the defined benefit pension plans are reported in the government-wide financial statements and the Water and Sewer Fund (see Note 7 for details).

Net Position Flow Assumption

The Township will sometimes fund outlays for a particular purpose from both restricted (e.g., restricted bond or grant proceeds) and unrestricted resources. In order to calculate the amounts to report as restricted net position and unrestricted net position in the government-wide and proprietary fund financial statements, a flow assumption must be made about the order in which the resources are considered to be applied. It is the Township's policy to consider restricted net position to have been depleted before unrestricted net position is applied.

Fund Balance Flow Assumptions

The Township will sometimes fund outlays for a particular purpose from both restricted and unrestricted resources (the total of committed, assigned, and unassigned fund balance). In order to calculate the amounts to report as restricted, committed, assigned, and unassigned fund balance in the governmental fund financial statements, a flow assumption must be made about the order in which the resources are considered to be applied. It is the government's policy to consider restricted fund balance to have been depleted before using any of the components of unrestricted fund balance. Furthermore, when the components of unrestricted fund balance can be used for the same purpose, committed fund balance is depleted first, followed by assigned fund balance. Unassigned fund balance is applied last.

Fund Balance Policies

Fund balance of governmental funds is reported in various categories based on the nature of any limitations requiring the use of resources for specific purposes. The government itself can establish limitations on the use of resources through either a commitment (committed fund balance) or an assignment (assigned fund balance).

The committed fund balance classification includes amounts that can be used only for the specific purposes determined by a formal action of the Township's highest level of decision-making authority. The Township's board of trustees is the highest level of decision-making authority for the government that can, by adoption of an ordinance prior to the end of the fiscal year, commit fund balance. Once adopted, the limitation imposed by the ordinance remains in place until a similar action is taken (the adoption of another ordinance) to remove or revise the limitation.

Amounts in the assigned fund balance classification are intended to be used by the Township for specific purposes but do not meet the criteria to be classified as committed. The Township's board of trustees has, by resolution, authorized the budget director and assistant budget director to assign fund balance. The board may also assign fund balance as it does when appropriating fund balance to cover a gap between estimated revenue and appropriations in the subsequent year's appropriated budget. Unlike commitments, assignments generally only exist temporarily. In other words, an additional action does not normally have to be taken for the removal of an assignment. Conversely, as discussed above, an additional action is essential to either remove or revise a commitment.

Note 1 - Significant Accounting Policies (Continued)

The Township's board of trustees has adopted, by ordinance, a Budget Stabilization Fund under Michigan's Public Act 30 of 1978. The board of directors may, with a two-thirds vote, set aside General Fund surplus, up to a maximum of 15 percent of the most recent General Fund budget (or average of the five most recent budgets, if less). An appropriation from the Budget Stabilization Fund, which also requires a two-thirds vote of the board of directors, may only occur to correct a budget shortfall or in the case of a natural disaster. The balance at December 31, 2018 of the stabilization amount, which is reported in the General Fund, is \$2,000,811.

Property Tax Revenue

Property taxes are levied on each December 1 on the taxable valuation of property as of the preceding December 31. These taxes are due on February 14 with a final collection date of February 28 before they are added to the county tax rolls.

The Township's 2017 property tax revenue was levied and collectible on December 31, 2017 and is recognized as revenue in the year ended December 31, 2018 when the proceeds of the levy are budgeted and available for the financing of operations.

The 2017 taxable valuation of the Township totaled \$2.04 billion on which ad valorem taxes levied consisted of 3.7650 mills for operating purposes, 2.9483 mills for police, 2.582 mills for the fire department, 0.8921 mills for the library, 0.4892 mills for parks and recreation, and 0.65 mills for debt on the public safety building. This resulted in property tax revenue of \$7.7 million for operating, \$6.0 million for police, \$5.3 million for the fire department, \$1.8 million for the library, \$1.0 million for parks and recreation, and \$1.3 million for debt on the public safety building. These amounts are recognized in the respective General Fund, Special Revenue Fund, and Debt Service Fund financial statements as tax revenue.

Pension

The Township offers defined benefit pension plans to its employees. The Township records a net pension liability or asset for the difference between the total pension liability calculated by the actuary and the pension plan's fiduciary net position. For the purpose of measuring the net pension liability/asset, deferred outflows of resources and deferred inflows of resources related to pensions, and pension expense, information about the fiduciary net position of the Charter Township of Waterford's Police and Fire Retirement System and the Charter Township of Waterford's General Employees' Retirement System and additions to/deductions from the pension plans' fiduciary net position have been determined on the same basis as they are reported by the pension plans. For this purpose, benefit payments (including refunds of employee contributions) are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value.

Other Postemployment Benefits

The Township offers retiree healthcare benefits to retirees. The Township records a net OPEB liability for the difference between the total OPEB liability calculated by the actuary and the OPEB plan's fiduciary net position. For the purpose of measuring the net OPEB liability, deferred outflows of resources and deferred inflows of resources related to OPEB, and OPEB expense, information about the fiduciary net position of the retiree healthcare plan and additions to/deductions from the OPEB plan's fiduciary net position have been determined on the same basis as they are reported by the OPEB plan. For this purpose, benefit payments are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value.

Note 1 - Significant Accounting Policies (Continued)

Compensated Absences (Vacation and Sick Leave)

It is the Township's policy to permit employees to accumulate earned but unused sick and vacation pay benefits. All sick and vacation pay is accrued when incurred in the government-wide, proprietary, and fiduciary fund financial statements. A liability for these amounts is reported in governmental funds only for employee terminations as of year end. All other accrued compensated absences are reported in the government-wide financial statements; generally, the funds that report each employee's compensation (the General Fund, Police Fund, Fire Fund, and Water and Sewer Fund, primarily) are used to liquidate obligations.

Proprietary Funds Operating Classification

Proprietary funds distinguish operating revenue and expenses from nonoperating items. Operating revenue and expenses generally result from providing services and producing and delivering goods in connection with a proprietary fund's principal ongoing operations. The principal operating revenue of the Water and Sewer Fund and internal service funds is charges to customers for sales and services. The Water and Sewer Fund also recognizes as operating revenue the portion of tap fees intended to recover the cost of connecting new customers to the system. Operating expenses for enterprise funds and internal service funds include the cost of sales and services, administrative expenses, and depreciation on capital assets. All revenue and expenses not meeting this definition are reported as nonoperating revenue and expenses.

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenue and expenses during the period. Actual results could differ from those estimates.

Upcoming Accounting Pronouncements

In January 2017, the Governmental Accounting Standards Board (GASB) issued Statement No. 84, *Fiduciary Activities*. This statement establishes criteria for identifying fiduciary activities of all state and local governments. An activity meeting the criteria should be reported in a fiduciary fund in the basic financial statements. The Township is currently evaluating the impact this standard will have on the financial statements when adopted. The provisions of this statement are effective for the Township's financial statements for the year ending December 31, 2019.

In June 2017, the GASB issued Statement No. 87, *Leases*, which improves accounting and financial reporting for leases by governments. This statement requires recognition of certain lease assets and liabilities for leases that previously were classified as operating leases and recognized as inflows of resources or outflows of resources based on the payment provisions of the contract. It establishes a single model for lease accounting based on the foundational principle that leases are financings of the right to use an underlying asset. Under this statement, a lessee is required to recognize a lease liability and an intangible right-to-use lease asset, and a lessor is required to recognize a lease receivable and a deferred inflow of resources. The Township is currently evaluating the impact this standard will have on the financial statements when adopted. The provisions of this statement are effective for the Township's financial statements for the year ending December 31, 2020.

Note 1 - Significant Accounting Policies (Continued)

In March 2018, the GASB issued Statement No. 88, *Certain Disclosures Related to Debt, Including Direct Borrowings and Direct Placements*. This statement establishes criteria to improve the information that is disclosed in the notes to the government financial statements related to debt, including direct borrowings and direct placements. It also clarifies which liabilities governments should include when disclosing information related to debt. The Township is currently evaluating the impact this standard will have on the financial statements when adopted. The provisions of this statement are effective for the Township's financial statements for the year ending December 31, 2019.

In June 2018, the GASB issued Statement No. 89, *Accounting for Interest Cost Incurred Before the End of a Construction Period*, which simplifies accounting for interest cost incurred before the end of construction and requires those costs to be expensed in the period incurred. As a result, interest cost incurred before the end of a construction period will not be capitalized and included in the historical cost of a capital asset reported in a business-type activity or enterprise fund. This statement also reiterates that in financial statements prepared using the current financial resources measurement focus, interest cost incurred before the end of a construction period should be recognized as an expenditure on a basis consistent with governmental fund accounting principles. The requirements of the standard will be applied prospectively and result in increased interest expense during periods of construction. The provisions of this statement are effective for the Township's financial statements for the year ending December 31, 2020.

In August 2018, the GASB issued Statement No. 90, *Majority Equity Interests*. This statement improves the consistency and comparability of reporting a government's majority equity interest in a legally separate organization and improves the relevance of financial statement information for certain component units. The Township is currently evaluating the impact this standard will have on the financial statements when adopted for the year ending December 31, 2019.

Note 2 - Stewardship, Compliance, and Accountability

Construction Code Fees

The Township oversees building construction, in accordance with the State's Construction Code Act, including inspection of building construction and renovation to ensure compliance with the building codes. The Township charges fees for these services. The law requires that collection of these fees be used only for construction code costs, including an allocation of estimated overhead costs. A summary of the current year activity and the cumulative surplus or shortfall generated since January 1, 2000 is as follows:

Shortfall at January 1, 2018			\$	(6,849,202)
Current year permit revenue				1,157,397
Related expenses:				
Direct costs	\$	612,368		
Estimated indirect costs		-		612,368
				<u>545,029</u>
Current year surplus				
Cumulative shortfall December 31, 2018			\$	<u>(6,304,173)</u>

Note 3 - Deposits and Investments

Deposits and investments are reported in the financial statements as follows:

	Governmental Activities	Business-type Activities	Total	Fiduciary	Total Primary Government and Fiduciary Funds	Component Units
Cash and investments	\$ 42,692,020	\$ 17,828,069	\$ 60,520,089	\$ 163,525,287	\$ 224,045,376	\$ 209,278

Note 3 - Deposits and Investments (Continued)

These amounts are classified into the following deposits and investment categories:

	Primary Government and Fiduciary Funds	Component Units
Deposits with financial institutions	\$ 30,596,301	\$ 209,278
Investments:		
Equity securities and mutual funds	114,613,659	-
Debt securities or funds	18,864,766	-
Short-term funds	33,034,378	-
Real estate and other	26,936,272	-
Total	<u>\$ 224,045,376</u>	<u>\$ 209,278</u>

Michigan Compiled Laws Section 129.91 (Public Act 20 of 1943, as amended) authorizes local governmental units to make deposits and invest in the accounts of federally insured banks, credit unions, and savings and loan associations that have offices in Michigan. The law also allows investments outside the state of Michigan when fully insured. The local unit is allowed to invest in bonds, securities, and other direct obligations of the United States or any agency or instrumentality of the United States; repurchase agreements; bankers' acceptances of United States banks; commercial paper rated within the two highest classifications, which matures not more than 270 days after the date of purchase; obligations of the State of Michigan or its political subdivisions, which are rated as investment grade; and mutual funds composed of investment vehicles that are legal for direct investment by local units of government in Michigan.

The Township's pension trust funds and the retiree healthcare fund are also authorized by Michigan Public Act 314 of 1965, as amended, to invest in certain reverse repurchase agreements, stocks, diversified investment companies, annuity investment contracts, real estate leased to public entities, mortgages, real estate (if the trust fund's assets exceed \$250 million), debt or equity of certain small businesses, certain state and local government obligations, and certain other specified investment vehicles.

The Township has designated 13 banks for the deposit of its funds. The investment policy adopted by the board in accordance with Public Act 196 of 1997 has authorized investment in bonds and securities of the United States government and bank accounts and CDs, but not the remainder of state statutory authority, as listed above. The Township's deposits and investment policies are in accordance with statutory authority. The Township's cash and investments are subject to several types of risk, which are examined in more detail below.

Custodial Credit Risk of Bank Deposits

Custodial credit risk is the risk that, in the event of a bank failure, the Township's deposits may not be returned to it. The Township does not have a deposit policy for custodial credit risk. At year end, the Township and its component units had \$30,290,804 of bank deposits (certificates of deposit and checking and savings accounts). Of that amount, \$2,398,395 was covered by federal depository insurance, and the remainder was uninsured and uncollateralized. The Township believes that, due to the dollar amounts of cash deposits and the limits of FDIC insurance, it is impractical to insure all deposits. As a result, the Township evaluates each financial institution with which it deposits funds and assesses the level of risk of each institution; only those institutions with an acceptable estimated risk level are used as depositories.

Interest Rate Risk

Interest rate risk is the risk that the value of investments will decrease as a result of a rise in interest rates. The Township's investment policy does not restrict investment maturities other than commercial paper, which can only be purchased with a 270-day maturity.

December 31, 2018

Note 3 - Deposits and Investments (Continued)

At year end, the Township had the following investments and maturities:

Government-wide Activities	Fair Value	Less than 1 Year	1-5 Years	6-10 Years	More than 10 Years
Agency securities	\$ 2,125,312	\$ 2,125,312	\$ -	\$ -	\$ -
Fixed-income pool	32,154,079	-	32,154,079	-	-
Total	\$ 34,279,391	\$ 2,125,312	\$ 32,154,079	\$ -	\$ -

Fiduciary Activities	Fair Value	Less than 1 Year	1-5 Years	6-10 Years	More than 10 Years
Agency securities	\$ 1,126,771	\$ -	\$ 111,891	\$ -	\$ 1,014,880
Bonds	877,675	-	396,851	325,090	155,734
Total	\$ 2,004,446	\$ -	\$ 508,742	\$ 325,090	\$ 1,170,614

Credit Risk

State law limits investments in commercial paper to the top two ratings issued by nationally recognized statistical rating organizations. The Township has no investment policy that would further limit its investment choices. As of year end, the credit quality ratings of debt securities (other than the U.S. government) are as follows:

Investment	Fair Value	Rating	Rating Organization
Primary Government			
Agency securities	\$ 2,125,312	AA+	S&P
Fixed-income pool	32,154,079	Not rated	-
Total	\$ 34,279,391		

Investment	Fair Value	Rating	Rating Organization
Fiduciary Funds			
Fixed-income pool	\$ 908,964	Not rated	S&P
Bonds	22,689	A	S&P
Bonds	132,864	A-	S&P
Bonds	88,588	A+	S&P
Bonds	33,740	AA	S&P
Bonds	45,255	AA-	S&P
Bonds	54,970	AA+	S&P
Bonds	22,283	AAA	S&P
Bonds	21,560	BB	S&P
Bonds	85,803	BB-	S&P
Bonds	106,428	BB+	S&P
Bonds	105,329	BBB	S&P
Bonds	114,464	BBB-	S&P
Bonds	21,577	BBB+	S&P
Bonds	22,125	Not rated	
Agency securities	19,535	A	S&P
Agency securities	20,609	AA	S&P
Agency securities	72,559	AA-	S&P
Agency securities	22,060	BB	S&P
Agency securities	22,085	BBB-	S&P
Agency securities	21,803	BBB+	S&P
Agency securities	970,110	Not rated	

Note 3 - Deposits and Investments (Continued)

Concentration of Credit Risk

The Township places no limit on the amount it may invest in any one issuer. More than 49 percent of the primary government's cash and investments are in the Oakland County Local Government Investment Pool (the "LGIP"). The LGIP is not registered with the SEC and does not issue a separate report. The fair value of the position in the pool is not the same as the value of the pool shares, since the pool does not meet the requirements under GASB 79 to report its value for financial reporting purposes at amortized cost.

More than 5 percent of the Township's fiduciary investments are in the HGK Trinity Street International Equity Fund (5.03 percent), Loomis Sayles Core Plus (7.12 percent), Edgewood Growth Fund (5.31 percent), and Virtus Asset Trust (9.00 percent).

Securities Lending

As permitted by some state statutes and under the provisions of a Securities Lending Authorization Agreement, the Township's Police and Fire Retirement System and General Employees' Retirement System (the "Retirement Systems") lend securities to broker-dealers and banks for collateral that will be returned for the same securities in the future. The Retirement Systems' custodial bank manages the securities lending program and receives cash, government securities, or irrevocable bank letters of credit as collateral. Borrowers are required to deliver collateral for each loan equal to not less than 100 percent of the market value of the loaned securities. During the year ended December 31, 2018, only United States currency was received as collateral.

The Retirement Systems did not impose any restrictions during the fiscal year on the amount of loans made on its behalf by the custodial bank. There were no failures by any borrowers to return loaned securities or pay distributions thereon during the fiscal year. Moreover, there were no losses during the fiscal year resulting from a default of the borrowers or custodial bank.

The Retirement Systems and the borrower maintain the right to terminate all securities lending transactions on demand. The cash collateral received on each loan was invested, together with the cash collateral of other lenders, in an investment pool. The average duration of such investment pool as of December 31, 2018 did not generally match the duration of the investments made with cash collateral. On December 31, 2018, the Retirement Systems had no credit risk exposure to borrowers. The collateral held and the fair market value of the underlying securities on loan for the Retirement Systems as of December 31, 2018 were \$880,299 and \$908,694, respectively, for the General Employees' Retirement System. A portion of the cash collateral received on each loan was invested, together with the cash collateral of other lenders, in a pool. The remaining collateral was invested in assets held by each system. The remaining investments held in the pool and the other investments of collateral consist of a floating rate note and mutual funds not rated by S&P. The Police and Fire Retirement System did not invest in securities lending as of December 31, 2018.

Fair Value Measurements

The Township categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure the fair value of the asset. Level 1 inputs are quoted prices in active markets for identical assets; Level 2 inputs are significant other observable inputs; Level 3 inputs are significant unobservable inputs. Investments that are measured at fair value using net asset value per share (or its equivalent) as a practical expedient are not classified in the fair value hierarchy below.

In instances whereby inputs used to measure fair value fall into different levels in the above fair value hierarchy, fair value measurements in their entirety are categorized based on the lowest level input that is significant to the valuation. The Township's assessment of the significance of particular inputs to these fair value measurements requires judgment and considers factors specific to each asset.

December 31, 2018

Note 3 - Deposits and Investments (Continued)

The Township has the following recurring fair value measurements as of December 31, 2018:

	Assets Measured at Carrying Value on a Recurring Basis			
	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Balance at December 31, 2018
Fixed-income funds	\$ 14,713,019	\$ 2,026,435	\$ -	\$ 16,739,454
Publicly traded partnerships	-	330,367	-	330,367
Stocks	70,119,863	-	-	70,119,863
Mutual funds	20,641,134	-	-	20,641,134
Real estate investment trusts	1,031,479	-	-	1,031,479
Pension manager short-term debt	-	5,137,124	-	5,137,124
Agency securities	-	2,125,312	-	2,125,312
Total investments by fair value level	\$ 106,505,495	\$ 9,619,238	\$ -	116,124,733
Investments measured at net asset value (NAV):				
Mutual funds				24,732,959
Publicly traded partnerships				12,411,159
Real estate investment trusts				8,026,145
Fixed-income pool				32,154,079
Total investments measured at NAV				77,324,342
Total investments measured at fair value				\$ 193,449,075

Certain fixed-income funds, mutual funds, real estate investment trusts, and stocks classified in Level 1 are valued using prices quoted in active markets for those securities.

The fair value of pension manager short-term debt and agency securities at December 31, 2018 was determined primarily based on Level 2 inputs. The Township estimates the fair value of these investments using other inputs, such as interest rates and yield curves, that are observable at commonly quoted intervals.

The fair value of certain fixed-income funds and stocks at December 31, 2018 was determined primarily based on Level 3 inputs. The Township estimates the fair value of these investments using information provided by the investment managers and custodian.

The valuation method for investments measured at net asset value (NAV) per share (or its equivalent) is presented on the table below.

Investments in Entities that Calculate Net Asset Value per Share

The Township holds shares or interests in investment companies whereby the fair value of the investments is measured on a recurring basis using net asset value per share (or its equivalent) of the investment companies as a practical expedient.

December 31, 2018

Note 3 - Deposits and Investments (Continued)

At December 31, 2018, the fair value, unfunded commitments, and redemption rules of those investments are as follows:

	Fair Value	Unfunded Commitments	Redemption Frequency, if Eligible	Redemption Notice Period
Mutual funds	\$ 24,732,959	\$ -		
Publicly traded partnerships	12,411,159	2,464,641	Monthly - Quarterly	30 - 65 days
Real estate investment trusts	8,026,145	3,302,611	Quarterly	10 days
Fixed-income pool	32,154,079	-	No restrictions	None
Total	\$ 77,324,342	\$ 5,767,252		

The mutual funds class includes investments in mutual funds that invest in stocks within the U.S. equity market, bonds of governments, government-related entities and agencies, and corporations primarily in the U.S. The publicly traded partnerships class includes investments in stocks within the foreign equity markets and funds that invest in large core global infrastructure assets. The real estate investment trusts class includes funds that invest in commercial U.S. real estate properties. The fixed-income pool class includes investment in a local government investment pool that invests assets in a manner that seeks the highest investment return consistent with preservation of capital while meeting the daily liquidity needs of participants. The fair values of the investments in these classes have been estimated using net asset value per share of the investments.

Note 4 - Capital Assets

Capital asset activity of the Township's governmental and business-type activities was as follows:

Governmental Activities

	Balance January 1, 2018	Reclassifications	Additions	Disposals and Adjustments	Balance December 31, 2018
Capital assets not being depreciated:					
Land	\$ 27,051,839	\$ -	\$ -	\$ -	\$ 27,051,839
Construction in progress	1,343,821	(1,343,821)	50,281	-	50,281
Subtotal	28,395,660	(1,343,821)	50,281	-	27,102,120
Capital assets being depreciated:					
Infrastructure	14,634,975	-	331,449	-	14,966,424
Buildings and improvements	30,753,250	-	149,810	(10,500)	30,892,560
Machinery and office equipment, vehicles, and other	26,527,095	1,343,821	2,615,197	(3,886,320)	26,599,793
Subtotal	71,915,320	1,343,821	3,096,456	(3,896,820)	72,458,777
Accumulated depreciation:					
Infrastructure	12,292,432	-	123,957	-	12,416,389
Buildings and improvements	14,269,371	-	696,018	(9,450)	14,955,939
Machinery and office equipment, vehicles, and other	21,090,121	-	1,368,455	(2,406,622)	20,051,954
Subtotal	47,651,924	-	2,188,430	(2,416,072)	47,424,282
Net capital assets being depreciated	24,263,396	1,343,821	908,026	(1,480,748)	25,034,495
Net governmental activities capital assets	\$ 52,659,056	\$ -	\$ 958,307	\$ (1,480,748)	\$ 52,136,615

December 31, 2018

Note 4 - Capital Assets (Continued)

Business-type Activities

	Balance January 1, 2018	Reclassifications	Additions	Disposals and Adjustments	Balance December 31, 2018
Capital assets not being depreciated:					
Land	\$ 3,267,097	\$ -	\$ -	\$ -	\$ 3,267,097
Construction in progress	4,670,844	(50,000)	2,735,801	-	7,356,645
Subtotal	7,937,941	(50,000)	2,735,801	-	10,623,742
Capital assets being depreciated:					
Lines and laterals	125,205,594	50,000	2,133,056	(1,143,008)	126,245,642
Buildings and improvements	25,243,641	-	131,624	-	25,375,265
Machinery and office equipment, vehicles, and other	7,482,628	-	763,588	(1,097,475)	7,148,741
Oakland-Macomb Interceptor joint assets	23,696,815	-	92,161	-	23,788,976
Subtotal	181,628,678	50,000	3,120,429	(2,240,483)	182,558,624
Accumulated depreciation:					
Lines and laterals	59,772,188	-	3,394,206	(1,143,008)	62,023,386
Buildings and improvements	12,562,763	-	567,808	-	13,130,571
Machinery and office equipment, vehicles, and other	4,767,189	-	372,750	(1,097,475)	4,042,464
Oakland-Macomb Interceptor joint assets	2,385,499	-	951,559	-	3,337,058
Subtotal	79,487,639	-	5,286,323	(2,240,483)	82,533,479
Net capital assets being depreciated	102,141,039	50,000	(2,165,894)	-	100,025,145
Net business-type activity capital assets	\$ 110,078,980	\$ -	\$ 569,907	\$ -	\$ 110,648,887

During the year, the Veterans Memorial Fund, a discretely presented component unit of the Township, had no additions or disposals of capital assets. Therefore, there was no change in the asset balance of \$72,650 in 2018. During the year, depreciation expense of \$2,180 was recorded. Net memorial being depreciated is \$55,211 as of December 31, 2018.

Depreciation expense was charged to programs of the primary government as follows:

Governmental activities:	
General government	\$ 685,301
District court	57,616
Public safety	1,081,354
Community and economic development	19,632
Recreation and culture	344,527
Total governmental activities	<u>\$ 2,188,430</u>
Business-type activities - Water and sewer	<u>\$ 5,286,323</u>

Note 4 - Capital Assets (Continued)

Construction Commitments

The Township has active construction projects at December 31, 2018. At year end, the Township's commitments with contractors are as follows:

	<u>Spent to Date</u>	<u>Remaining Commitment</u>
Water tank repairs and painting	\$ 65,175	\$ 29,575

Note 5 - Interfund Receivables, Payables, and Transfers

The composition of interfund balances is as follows:

<u>Receivable Fund</u>	<u>Payable Fund</u>	<u>Amount</u>
General Fund	Nonmajor governmental fund	\$ 46,993

These balances result from the time lag between the dates that goods and services are provided or reimbursable expenditures occur, transactions are recorded in the accounting system, and payments between funds are made.

Interfund transfers reported in the fund financial statements are composed of the following:

<u>Paying Fund (Transfer Out)</u>	<u>Receiving Fund (Transfer In)</u>	<u>Amount</u>
General Fund	Fire Fund	\$ 1,977,500
	Police Fund	5,775,000
	Other nonmajor governmental funds	<u>1,155,000</u>
	Total General Fund	8,907,500
Fire Fund	Other nonmajor governmental funds	250,000
Other nonmajor governmental fund	Other nonmajor governmental fund	<u>45,000</u>
	Total	<u><u>\$ 9,202,500</u></u>

The transfers from the General Fund to the Fire and Police funds represent the use of unrestricted resources to finance operations of the fire and police departments in accordance with budgetary authorizations. The transfer from the General Fund to the other nonmajor governmental funds represents a transfer to the Improvement Revolving Fund, Parks and Recreation Fund, and Capital Project Allocation Fund to cover repairs and improvements to the Township's infrastructure and General Fund buildings. The transfers from the Fire Fund and Parks and Recreation Fund (other nonmajor governmental fund) to the Capital Project Allocation Fund (other nonmajor governmental fund) represent prefunding for future identified capital project needs of each fund.

December 31, 2018

Note 6 - Long-term Debt

The Township issues bonds to provide for the acquisition and construction of major capital facilities. General obligation bonds are direct obligations and pledge the full faith and credit of the Township. County contractual agreements and installment purchase agreements are also general obligations of the government. Long-term debt activity for the year ended December 31, 2018 can be summarized as follows:

Governmental Activities

	Interest Rate Ranges	Principal Maturity Ranges	Beginning Balance	Additions	Reductions	Ending Balance	Due within One Year
Bonds payable:							
General Obligation Unlimited Tax Bond:							
Refunding Bonds - Series 2009							
Amount of issue - \$9,600,000							
Maturing through 2018							
	3.00%-3.5%		\$ 1,360,000	\$ -	\$(1,360,000)	\$ -	\$ -
General Obligation Unlimited Tax Bond:							
Refunding Bonds - Series 2012							
Amount of issue - \$1,151,550							
Maturing through 2023							
	2.00% - 3.00%	\$85,472 - \$123,654	624,066	-	(115,793)	508,273	119,162
Installment Purchase Agreement:							
Amount of issue - \$811,783							
Maturing through 2020							
	1.87	\$136,991- \$139,553	411,021	-	(134,476)	276,545	136,991
Installment Purchase Agreement:							
Amount of issue - \$187,212							
Maturing through 2020							
	2.05	\$37,491 - \$38,260	112,488	-	(36,738)	75,750	37,491
Installment Purchase Agreement:							
Amount of issue - \$276,699							
Maturing through 2046							
			234,210	-	(234,210)	-	-
Total bonds payable			2,741,785	-	(1,881,217)	860,568	293,644
Other long-term liabilities:							
Employee compensated absences							
Estimated liability for workers' compensation claims							
			2,349,575	3,419,749	(3,097,153)	2,672,171	2,562,612
Estimated liability for unemployment claims							
			550,043	304,139	(267,572)	586,610	247,093
Estimated liability for general liability claims							
			135,792	124,175	-	259,967	-
			255,350	30,048	(112,361)	173,037	173,037
Total governmental activities long-term debt			<u>\$ 6,032,545</u>	<u>\$ 3,878,111</u>	<u>\$(5,358,303)</u>	<u>\$ 4,552,353</u>	<u>\$ 3,276,386</u>

December 31, 2018

Note 6 - Long-term Debt (Continued)

Business-type Activities

	Interest Rate Ranges	Principal Maturity Ranges	Beginning Balance	Additions	Reductions	Ending Balance	Due within One Year
Bonds payable:							
Drinking Water Relief Fund:							
Series 2013A							
Amount of issue - \$6,994,654		\$300,000 -					
Maturing through 2033	2.00%	\$394,225	\$ 5,469,225	\$ -	\$ (295,000)	\$ 5,174,225	\$ 300,000
Sewer Relief Fund:							
Series 2013B							
Amount of issue - \$4,130,000		\$143,293 -					
Maturing through 2035	2.00%	\$245,000	3,683,293	-	(175,000)	3,508,293	180,000
Sewer Relief Fund:							
Series 2007-B							
Amount of issue - \$3,745,000		\$180,000 -					
Maturing through 2027	1.63%	\$200,000	1,877,393	-	(180,000)	1,697,393	180,000
Drinking Water Relief Fund:							
Series 2007-C							
Amount of issue - \$8,905,000		\$445,000 -					
Maturing through 2028	2.13%	\$538,831	5,338,831	-	(435,000)	4,903,831	445,000
General Obligation Unlimited Tax Bond:							
Refunding Bonds - Series 2012							
Amount of issue - \$3,307,031	2.00% -	\$234,528 -					
Maturing through 2023	3.00%	\$366,346	1,790,934	-	(339,207)	1,451,727	350,838
Oakland-Macomb Sewer Interceptor:							
Series 2010A							
Amount of issue - \$3,510,038		\$162,876 -					
Maturing through 2030	2.50%	\$220,085	2,634,278	-	(158,836)	2,475,442	162,876
Oakland-Macomb Sewer Interceptor:							
Series 2010B							
Amount of issue - \$901,874	1.15% -	\$39,709 -					
Maturing through 2030	5.90%	\$69,996	677,751	-	(37,690)	640,061	39,709
Oakland-Macomb Sewer Interceptor:							
Series 2011							
Amount of issue - \$4,219,251		\$186,751 -					
Maturing through 2033	2.50%	\$263,600	3,533,395	-	(182,618)	3,350,777	186,751
Oakland-Macomb Sewer Interceptor:							
Series 2013A							
Amount of issue - \$9,206,996		\$131,355 -					
Maturing through 2034	2.0%	\$541,339	7,626,704	-	(402,118)	7,224,586	409,891
Oakland County Clinton River WRRF:							
Series 2017							
Amount of issue - \$3,006,307		\$117,215 -					
Maturing through 2038	2.50%	\$154,418	88,029	1,772,735	(88,029)	1,772,735	117,215
Installment Purchase Agreement:							
Amount of issue - \$61,342							
Maturing through 2046	-		58,888	-	(58,888)	-	-
Total bonds payable			32,778,721	1,772,735	(2,352,386)	32,199,070	2,372,280
Other long-term liabilities:							
Employee compensated absences			259,630	479,439	(440,955)	298,114	224,331
Estimated liability for workers' compensation claims			33,047	-	(24,886)	8,161	3,438
Estimated liability for general liability claims			105,844	-	(63,460)	42,384	42,384
Total business-type activities long-term debt			\$33,177,242	\$ 2,252,174	\$ (2,881,687)	\$32,547,729	\$ 2,642,433

Note 6 - Long-term Debt (Continued)

Other Long-term Liabilities

For the governmental activities, claims and judgments, compensated absences, net pension liability, and net other postemployment benefit liability are generally liquidated by the General, Police, Fire, and Library funds related to employee salaries and fringes. Additionally, for the business-type activities, claims and judgments, compensated absences, net pension liability, and net other postemployment benefit liability are generally liquidated by the Water and Sewer Fund for employee salaries and fringes.

During 2009, Macomb and Oakland counties jointly established the Oakland-Macomb Interceptor Drain Drainage District (OMID), an intercounty drainage district, under Chapter 21 of the Drain Code. The OMID was created to acquire, operate, and maintain the Oakland Macomb Interceptor (OMI); title to the OMI was transferred from the City of Detroit, Michigan to the OMID as part of a settlement agreement with the City of Detroit, Michigan reached in May 2009. The OMID apportioned the responsibility to pay the debt required to finance this project to the participating cities, townships, and villages located in the two counties. No additional debt is expected to be incurred related to the Series 2010A, Series 2010B, and Series 2011 bonds. The Township has tentatively been advised that its other assessments to pay the debt related to this project is \$9,206,996 for the Series 2013A bond. As the OMID project is not complete, future payment amounts for the Township's share of the Series 2013A OMID debt are not yet finalized. To date, the Township has incurred \$17.4 million of debt and other liabilities related to the project. The Township prefunded the Series 2014 obligation; therefore, it is not included in the debt.

In 2017, the Township received notice from Oakland County Water Resources Commissioner that the Clinton River Water Resource Recovery Drainage District is planning to construct a Biosolids Handling and Septage Receiving Facility. The total estimated cost of the project is \$40 million. The Township's estimated share is approximately \$4.6 million. Each of the participating communities was given the option to prepay the assessment or pay the assessment through a debt issue over 20 years. The Township elected to prepay \$1.5 million of the assessment and issue debt for the remainder. Total debt incurred to date is approximately \$1.8 million.

Debt Service Requirements to Maturity

Annual debt service requirements to maturity for the above bonds and note obligations are as follows:

Years Ending December 31	Governmental Activities			Business-type Activities		
	Principal	Interest	Total	Principal	Interest	Total
2019	\$ 293,644	\$ 19,931	\$ 313,575	\$ 2,372,280	\$ 752,840	\$ 3,125,120
2020	301,466	13,434	314,900	2,436,015	697,886	3,133,901
2021	85,472	6,738	92,210	2,341,750	641,361	2,983,111
2022	88,841	4,582	93,423	2,400,108	587,779	2,987,887
2023	91,145	2,324	93,469	2,457,532	532,671	2,990,203
2024-2028	-	-	-	11,530,965	1,872,235	13,403,200
2029-2032	-	-	-	8,140,773	679,797	8,820,570
2033-2037	-	-	-	519,647	20,837	540,484
Total	\$ 860,568	\$ 47,009	\$ 907,577	\$32,199,070	\$ 5,785,406	\$37,984,476

Note 7 - Pension Plans

Plan Description

Police and Fire Retirement System

The Police and Fire Pension Board administers the Police and Fire Retirement System - a single-employer defined benefit pension plan that provides pensions for all permanent full-time police employees hired prior to November 1, 2014 and all permanent full-time fire employees hired prior to January 1, 2012. Benefit terms have been established by contractual agreements between the Township and the various employee union representation; amendments are subject to the same process. Management of the plan is vested in the pension board, which consists of five members - two members elected by plan members, two citizens appointed by the township board, and the township treasurer.

General Employees' Retirement System

The General Employees' Pension Board administers the General Employees' Retirement System - a single-employer defined benefit pension plan that provides pensions for all permanent full-time township employees hired before certain dates in 2005 and 2006, depending on their employee group. Benefit terms have been established by contractual agreements between the Township and the various employee union representation; amendments are subject to the same process. Management of the plan is vested in the pension board, which consists of five members - two members elected by plan members, two citizens appointed by the Township, and the township treasurer.

The financial statements of each pension system are included in these financial statements as a pension fund (a fiduciary fund).

Benefits Provided

The pension plans provide retirement, disability, and death benefits. Benefit terms are established by township ordinances and negotiations with the Township's collective bargaining units and may be amended through negotiations with the Township's collective bargaining units. The plans are closed to new hires.

Employees Covered by Benefit Terms

At December 31, 2017, the date of the most recent actuarial valuation, the following members were covered by the benefit terms:

	<u>Police and Fire Retirement System</u>	<u>General Employees' Retirement System</u>
Inactive plan members or beneficiaries currently receiving benefits	154	167
Inactive plan members entitled to but not yet receiving benefits	2	37
Active plan members	<u>80</u>	<u>73</u>
Total employees covered by the plan	<u><u>236</u></u>	<u><u>277</u></u>

Note 7 - Pension Plans (Continued)

Contributions

Article 9, Section 24 of the State of Michigan constitution requires that financial benefits arising on account of employee service rendered in each year be funded during that year. Accordingly, the pension board retains an independent actuary to determine the annual contribution. The actuarially determined rate is the estimated amount necessary to finance the costs of benefits earned by plan members during the year with an additional amount to finance any unfunded accrued liability. Contribution requirements of plan members are established and may be amended by township ordinances and negotiations with the Township's collective bargaining units. For the year ended December 31, 2018, the active member contribution rate was 5.0 percent of annual pay for both plans. The Township's contribution rate was 38.7 and 14.9 percent of annual payroll for the Police and Fire Retirement System and the General Employees' Retirement System, respectively.

Net Pension Liability

The Township chooses a date for each pension plan to measure its net pension liability. This is based on the measurement date of each pension plan, which may be based on a comprehensive valuation as of that date or based on an earlier valuation that has used procedures to roll the information forward to the measurement date.

	<u>Police and Fire Retirement System</u>	<u>General Employees' Retirement System</u>
Measurement date used for the Township NPL	December 31, 2018	December 31, 2018
Based on a comprehensive actuarial valuation as of	December 31, 2017	December 31, 2017

Changes in the net pension liability during the measurement year were as follows:

Police and Fire Retirement System

<u>Changes in Net Pension Liability</u>	<u>Increase (Decrease)</u>		
	<u>Total Pension Liability</u>	<u>Plan Net Position</u>	<u>Net Pension Liability</u>
Balance at January 1, 2018	\$ 108,223,757	\$ 97,481,518	\$ 10,742,239
Changes for the year:			
Service cost	1,533,744	-	1,533,744
Interest	7,374,206	-	7,374,206
Differences between expected and actual experience	(579,972)	-	(579,972)
Changes in assumptions	3,908,248	-	3,908,248
Contributions - Employer	-	2,851,743	(2,851,743)
Contributions - Employee	-	359,818	(359,818)
Net investment loss	-	(5,483,678)	5,483,678
Benefit payments, including refunds	(7,289,655)	(7,289,655)	-
Administrative expenses	-	(561,214)	561,214
Net changes	<u>4,946,571</u>	<u>(10,122,986)</u>	<u>15,069,557</u>
Balance at December 31, 2018	<u>\$ 113,170,328</u>	<u>\$ 87,358,532</u>	<u>\$ 25,811,796</u>

The plan's fiduciary net position represents 77.19 percent of the total pension liability.

Note 7 - Pension Plans (Continued)

General Employees' Retirement System

Changes in Net Pension (Asset) Liability	Increase (Decrease)		
	Total Pension Liability	Plan Net Position	Net Pension (Asset) Liability
Balance at January 1, 2018	\$ 63,384,410	\$ 65,536,884	\$ (2,152,474)
Changes for the year:			
Service cost	700,386	-	700,386
Interest	4,330,278	-	4,330,278
Differences between expected and actual experience	(118,483)	-	(118,483)
Changes in assumptions	1,693,457	-	1,693,457
Contributions - Employer	-	674,987	(674,987)
Contributions - Employee	-	11,627	(11,627)
Net investment loss	-	(2,814,131)	2,814,131
Benefit payments, including refunds	(3,746,991)	(3,746,991)	-
Administrative expenses	-	(416,490)	416,490
Net changes	2,858,647	(6,290,998)	9,149,645
Balance at December 31, 2018	\$ 66,243,057	\$ 59,245,886	\$ 6,997,171

The plan's fiduciary net position represents 89.44 percent of the total pension liability.

Pension Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

For the year ended December 31, 2018, the Township recognized pension expense of \$7,020,970 from all plans.

At December 31, 2018, the Township reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Difference between expected and actual experience	\$ 72,453	\$ 867,167
Changes in assumptions	3,298,668	-
Net difference between projected and actual earnings on pension plan investments	8,992,915	-
Total	\$ 12,364,036	\$ 867,167

Note 7 - Pension Plans (Continued)

Amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense as follows (note that employer contributions subsequent to the measurement date will reduce the net pension liability and, therefore, will not be included in future pension expense):

Years Ending December 31	Amount
2019	\$ 4,584,248
2020	1,673,582
2021	1,354,032
2022	3,885,007
Total	<u>\$ 11,496,869</u>

Actuarial Assumptions

The total pension liability in each actuarial valuation was determined using the following actuarial assumptions applied to all periods included in the measurement:

	Police and Fire Retirement System	General Employees' Retirement System
Inflation	2.5%	2.5%
Salary increases (including inflation)	3.5-11.4%	3.5-6.7%
Investment rate of return (net of investment expenses)	6.75%	6.75%
Mortality rates	RP-2014 Mortality Table projected to 2026 using projection scale MP-2017	RP-2014 Mortality Table projected to 2026 using projection scale MP-2017

The actuarial assumptions used in the December 31, 2017 actuarial valuation date valuation were based on the results of an actuarial experience study for the period from 2013 to 2017.

Discount Rate

As shown below, the discount rate used to measure the total pension liability was determined after considering a projection of the cash flows to determine whether the future contributions (made at the current contribution rates) will be sufficient to allow the pension plans' fiduciary net position to make all projected future benefit payments of current active and inactive employees.

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation.

	Police and Fire Retirement System	General Employees' Retirement System
Assumed investment rate of return	6.75	6.75
Are contributions expected to be sufficient to allow fiduciary net position to pay future benefits?	Yes	Yes
Discount rate used to measure TPL	6.75	6.75

December 31, 2018

Note 7 - Pension Plans (Continued)

Investment Rate of Return

Best estimates of arithmetic real rates of return as of the December 31, 2018 measurement date for each major asset class included in the pension plan's target asset allocation, as disclosed in the investment footnote, are summarized in the following tables:

Police and Fire Retirement System

Asset Class	Target Allocation	Long-term Expected Real Rate of Return
Domestic equity	40.50 %	8.17 %
International equity	17.00	7.50
Domestic bonds	29.00	2.97
International bonds	1.00	3.50
Real estate	7.50	7.70
Alternatives	5.00	10.90

General Employees' Retirement System

Asset Class	Target Allocation	Long-term Expected Real Rate of Return
Domestic equity	49.00 %	7.80 %
U.S. government or agency fixed income	25.00	3.10
International equity	10.00	7.50
Real estate	5.00	7.70
Private equity	10.00	10.90
Cash or cash equivalents	1.00	2.50

Sensitivity of the Net Pension Liability to Changes in the Discount Rate

The following presents the net pension liability of the Township, calculated using the discount rate of 6.75 percent, as well as what the Township's net pension liability would be if it were calculated using a discount rate that is 1 percentage point lower or 1 percentage point higher than the current rate:

	1 Percent Decrease (5.75%)	Current Discount Rate (6.75%)	1 Percent Increase (7.75%)
Net pension liability of the Police and Fire Retirement System	\$ 38,741,383	\$ 25,811,796	\$ 15,554,003
Net pension liability of the General Employees' Retirement System	14,330,564	6,997,170	778,577
Total	<u>\$ 53,071,947</u>	<u>\$ 32,808,966</u>	<u>\$ 16,332,580</u>

Note 7 - Pension Plans (Continued)

Investment Policy

The pension plan’s policy in regard to the allocation of invested assets is established and may be amended by the pension board by a majority vote of its members. It is the policy of the pension board to pursue an investment strategy that manages risk through the prudent diversification of the portfolio across a broad selection of distinct asset classes. The pension plan’s investment policy discourages the use of cash equivalents, except for liquidity purposes, and aims to refrain from dramatically shifting asset class allocations over short time spans.

Rate of Return

For the year ended December 31, 2018, the annual money-weighted rate of return on pension plan investments, net of pension plan investment expense, was (5.56) and (3.74) percent for the Police and Fire Retirement System and the General Employees' Retirement System, respectively. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

Pension Plan Reserves

In accordance with plan documents, the following reserves are required to be set aside within the pension plan:

The retiree reserve is to be computed annually by the actuary as the present value of estimated benefit payments for all current retirees. The amounts reserved may be used solely to pay monthly retiree benefit payments.

The employee reserve is credited as employee contributions are received throughout the year; the plan maintains a record of the amount contributed by each employee and credits interest annually at a rate earned by the retirement system for that fiscal year. For any employee who terminates before vesting in the pension plan, their balance is returned to them; for those who stay until retirement, the balance is transferred into the retiree reserve.

The employer reserve account is used to account for the residual net position balance in the pension plan after funding the above two reserves.

The balances of the reserve accounts at December 31, 2018 are as follows:

Police and Fire Retirement System

	<u>Required Reserve</u>	<u>Amount Funded</u>
Retiree reserve	\$ 23,148,631	\$ 23,148,631
Employee reserve	6,030,250	6,030,250
Employer reserve	58,179,651	58,179,651
Total	<u>\$ 87,358,532</u>	<u>\$ 87,358,532</u>

General Employees' Retirement System

	<u>Required Reserve</u>	<u>Amount Funded</u>
Retiree reserve	\$ 35,505,469	\$ 35,505,469
Employee reserve	258,780	258,780
Employer reserve	23,481,637	23,481,637
Total	<u>\$ 59,245,886</u>	<u>\$ 59,245,886</u>

Note 7 - Pension Plans (Continued)

Deferred Retirement Option Program (DROP)

Police and Fire Retirement System

All plan members (except police officer union and police supervisors) may participate in the DROP after attaining the minimum requirements for a normal service retirement. A monthly amount equal to the amount that would have been paid had the member retired and current member contributions accumulate in the DROP account. The account is credited with the system's prior calendar year's market value rate of return (but not greater than 4 percent interest) each year. Additions cease at the earlier of five years of DROP participation or separation from services, although interest on the DROP account will continue to accrue during such time. Management DROP participants may continue in covered employment after five years of participation, but do not accumulate additional service credit or make member contributions. DROP service for management participants is included for purposes of eligibility for the escalator. Fire DROP participants may continue in covered employment after five years of participation or until their 33rd year of service, but do not accumulate additional service credit. Upon actual retirement, the member may receive the DROP account balance in the form of a lump sum or as an additional annuity. Member contributions during the DROP period are not included in the computation of the annuity withdrawal reduction. Upon exit from the DROP, the original monthly amount established upon entry in the DROP continues in addition to any other benefits or adjustments. There were 17 DROP members at December 31, 2017.

General Employees' Retirement System

All employees in the dispatch union are eligible to participate in the DROP. There are currently eight members in this group. Effective January 1, 2008, any member of the Waterford Township Dispatchers Association hired on or before June 30, 2006 may participate in the DROP after attaining the minimum requirements for a normal service retirement. A monthly amount equal to the amount that would have been paid had the member retired and current member contributions accumulate in the DROP account. The account is credited with the system's prior calendar year's market rate of return (but not greater than 4 percent interest) each year. Additions cease at the earlier of five years of DROP participation or separation from service, although interest on the DROP account will continue to accrue during such time. Participants may continue in covered employment after five years of participation or until their 33rd year of service, but do not accumulate additional service credit. Upon actual retirement, the member may receive the DROP account balance in the form of a lump sum or as an additional annuity. Member contributions continue during the DROP period. Upon exit from the DROP, the original monthly amount established upon entry in the DROP continues in addition to any other benefits or adjustments. Member contributions made during the DROP period are added to the DROP account. There was one DROP member at December 31, 2017.

Note 8 - Other Postemployment Benefit Plan

Plan Description

The Township administers the Waterford Township Retiree Health Plan, a single-employer defined benefit plan. The benefits are provided under collective bargaining agreements. The plan does not issue a separate stand-alone financial statement. Administrative costs are paid by the plan through employer contributions. The Township includes pre-Medicare retirees and their dependents in its insured healthcare plan, with no contribution required by the participant. The Township purchases Medicare supplemental insurance for retirees eligible for Medicare. Management of the plan is vested with the General Employees' Retirement System Board.

The financial statements of the OPEB plan are included in these financial statements as an other employee benefit fund (a fiduciary fund).

Note 8 - Other Postemployment Benefit Plan (Continued)

Benefits Provided

The Township provides retiree healthcare benefits to all eligible full-time employees upon retirement or to individuals receiving system disability pensions, in accordance with various labor contracts. Benefits are provided through the Township's health insurance program and the full cost of benefits is covered by the plan. The plan is closed to all new hires, except for police personnel.

Employees Covered by Benefit Terms

At December 31, 2016, the date of the most recent actuarial valuation, the following members were covered by the benefit terms:

Inactive plan members or beneficiaries currently receiving benefits	283
Inactive plan members entitled to but not yet receiving benefits	36
Active plan members	<u>223</u>
Total plan members	<u><u>542</u></u>

Contributions

It is the Township's policy to pay retiree healthcare costs as they become due (on a "pay-as-you-go" basis) and to make discretionary contributions to the retiree healthcare fund on an annual basis. The Township has no obligation to make contributions in advance of when the insurance premiums are due for payment. In the current year, the Township paid postemployment healthcare premiums of \$5,753,465, plus it contributed \$1,258,200 into a prefunded retiree healthcare fund, which is reported in these financial statements as an other postemployment benefit trust fund type.

Net OPEB Liability

The Township has chosen to use the December 31 measurement date as its measurement date for the net OPEB liability. The December 31, 2018 fiscal year end reported net OPEB liability was determined using a measure of the total OPEB liability and the OPEB net position as of the December 31, 2018 measurement date. The December 31, 2018 total OPEB liability was determined by an actuarial valuation performed as of December 31, 2016, which used update procedures to roll forward the estimated liability to December 31, 2018.

Changes in the net OPEB liability during the measurement year were as follows:

Changes in Net OPEB Liability	Increase (Decrease)		
	Total OPEB Liability	Plan Net Position	Net OPEB Liability
Balance at January 1, 2018	\$ 160,720,357	\$ 13,729,495	\$ 146,990,862
Changes for the year:			
Service cost	2,740,489	-	2,740,489
Interest	10,348,900	-	10,348,900
Contributions - Employer	-	7,011,665	(7,011,665)
Contributions - Employee	-	54,245	(54,245)
Net investment loss	-	(934,859)	934,859
Benefit payments, including refunds	(5,753,465)	(5,753,465)	-
Administrative expenses	-	(49,049)	49,049
Net changes	<u>7,335,924</u>	<u>328,537</u>	<u>7,007,387</u>
Balance at December 31, 2018	<u><u>\$ 168,056,281</u></u>	<u><u>\$ 14,058,032</u></u>	<u><u>\$ 153,998,249</u></u>

The plan's fiduciary net position represents 8.37 percent of the total OPEB liability.

Note 8 - Other Postemployment Benefit Plan (Continued)

OPEB Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to OPEB

For the year ended December 31, 2018, the Township recognized OPEB expense of \$12,524,383.

At December 31, 2018, the Township reported deferred outflows of resources related to OPEB from the following sources:

	<u>Deferred Outflows of Resources</u>
Net difference between projected and actual earnings on OPEB plan investments	\$ 1,494,670

Amounts reported as deferred outflows of resources related to OPEB will be recognized in OPEB expense as follows (note that employer contributions subsequent to the measurement date will reduce the net OPEB liability and, therefore, will not be included in future OPEB expense):

<u>Years Ending December 31</u>	<u>Amount</u>
2019	\$ 373,667
2020	373,667
2021	373,667
2022	<u>373,669</u>
Total	<u>\$ 1,494,670</u>

Actuarial Assumptions

The total OPEB liability in the December 31, 2016 actuarial valuation was determined using an inflation assumption of 3 percent; assumed salary increases (including inflation) of 3.65 to 11.42 percent; an investment rate of return (net of investment expenses) of 6.5 percent; a healthcare cost trend rate of 9 percent for 2017, decreasing 0.5 percent per year to an ultimate rate of 4.5 percent for 2026 and later years; and the RP-2000 Combined Healthy Mortality Table projected 17 years using scale BB. These assumptions were applied to all periods included in the measurement.

Discount Rate

The discount rate used to measure the total OPEB liability was 6.5 percent. The projection of cash flows used to determine the discount rate assumed that employee contributions will be made at the current contribution rate and that township contributions will be made at rates equal to the difference between actuarially determined contribution rates and the employee rate.

Based on those assumptions, the OPEB plan's fiduciary net position was projected to be available to make all projected future benefit payments of current active and inactive employees. Therefore, the long-term expected rate of return on OPEB plan investments was applied to all periods of projected benefit payments to determine the total OPEB liability.

December 31, 2018

Note 8 - Other Postemployment Benefit Plan (Continued)

Investment Rate of Return

The long-term expected rate of return on OPEB plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of OPEB plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and adding expected inflation. Best estimates of arithmetic real rates of return as of the December 31, 2018 measurement date for each major asset class included in the OPEB plan's target asset allocation, as disclosed in the investment footnote, are summarized in the following table:

Asset Class	Long-term Expected Real Rate of Return
U.S. large cap	6.65 %
U.S. mid cap	7.55
U.S. small cap	8.05
International developed equity	6.65
Public real estate investment trust fund	6.45
Hedge funds - Diversified	3.15
Intermediate-term taxable	0.95

Sensitivity of the Net OPEB Liability to Changes in the Discount Rate

The following presents the net OPEB liability of the Township, calculated using the discount rate of 6.5 percent, as well as what the Township's net OPEB liability would be if it were calculated using a discount rate that is 1 percentage point lower or 1 percentage point higher than the current rate:

	1 Percent Decrease (5.5%)	Current Discount Rate (6.5%)	1 Percent Increase (7.5%)
Net OPEB liability	\$ 177,075,629	\$ 153,998,249	\$ 135,005,277

Sensitivity of the Net OPEB Liability to Changes in the Healthcare Cost Trend Rate

The following presents the net OPEB liability of the Township, calculated using the healthcare cost trend rate of 9 percent for 2017, decreasing 0.5 percent per year to an ultimate rate of 4.5 percent for 2026 and later years, as well as what the Township's net OPEB liability would be if it were calculated using a healthcare cost trend rate that is 1 percentage point lower or 1 percentage point higher than the current rate:

	1 Percent Decrease (8% Decreasing to 3.5%)	Current Healthcare Cost Trend Rate (9% Decreasing to 4.5%)	1 Percent Increase (10% Decreasing to 5.5%)
Net OPEB liability	\$ 131,058,682	\$ 153,998,249	\$ 182,322,616

December 31, 2018

Note 8 - Other Postemployment Benefit Plan (Continued)

Investment Policy

The OPEB plan’s policy in regard to the allocation of invested assets is established and may be amended by the OPEB board by a majority vote of its members. It is the policy of the OPEB board to pursue an investment strategy that manages risk through the prudent diversification of the portfolio across a broad selection of distinct asset classes. The OPEB plan’s investment policy discourages the use of cash equivalents, except for liquidity purposes, and aims to refrain from dramatically shifting asset class allocations over short time spans. The following was the OPEB board’s adopted asset allocation policy as of December 31, 2018:

Asset Class	Target Allocation
U.S. large cap	25.00 %
U.S. mid cap	5.00
U.S. small cap	10.00
International developed equity	10.00
Public real estate investment trust fund	5.00
Hedge funds - Diversified	10.00
Intermediate-term taxable	35.00
Total	<u>100.00 %</u>

Rate of Return

For the year ended December 31, 2018, the annual money-weighted rate of return on OPEB plan investments, net of OPEB plan investment expense, was (6.2) percent. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

Note 9 - Pension and Other Employee Benefit Trust Funds

The following are condensed financial statements for the individual pension plans and postemployment healthcare plans:

	Police and Fire Retirement System	General Employees' Retirement System	Other Postemployment Benefits
Statement of Net Position			
Investments	\$ 86,892,982	\$ 59,877,106	\$ 14,058,032
Other assets	1,194,055	336,079	-
Liabilities	728,505	967,299	-
Net position	<u>\$ 87,358,532</u>	<u>\$ 59,245,886</u>	<u>\$ 14,058,032</u>
Statement of Changes in Net Position			
Investment loss	\$ (5,483,678)	\$ (2,814,131)	\$ (934,859)
Contributions - Employer	2,851,743	674,987	7,011,665
Contributions - Employee	359,818	11,627	54,245
Benefit payments	7,289,655	3,746,991	5,753,465
Other deductions	561,214	416,490	49,049
Net change in net position	<u>\$ (10,122,986)</u>	<u>\$ (6,290,998)</u>	<u>\$ 328,537</u>

Note 10 - Defined Contribution Pension Plan

The Township provides pension benefits to full-time employees hired after various dates, depending on the employee group, through a defined contribution plan. In a defined contribution plan, benefits depend solely on amounts contributed to the plan plus investment earnings. Employees are eligible to participate from the date of employment. As established by various collective bargaining agreements, the Township contributes a certain percentage of employees' gross earnings and employee contributions. Employer contribution rates and vesting schedules vary based on employee group. In accordance with these agreements, the Township contributed \$1,584,768 during the current year.

Note 11 - Risk Management

The Township is exposed to various risks of loss related to property loss, torts, errors and omissions, and employee injuries (workers' compensation), as well as medical benefits provided to employees. The Township participates in the Michigan Municipal Risk Management Authority risk pool for claims relating to general and auto liability, auto physical damage, and property loss claims. The Township is self-insured for workers' compensation claims. Prior to July 31, 2018, the Township was self-insured for medical benefit claims. Effective August 1, 2018, the Township is no longer self-insured for medical benefit claims. Settled claims relating to the commercial insurance have not exceeded the amount of insurance coverage in any of the past three fiscal years.

The Michigan Municipal Risk Management Authority (the "Authority") risk pool program operates as a claims servicing pool for amounts up to member retention limits and operates as a common risk-sharing management program for losses in excess of member retention amounts. Although premiums are paid annually to the Authority that it uses to pay claims up to the retention limits, the ultimate liability for those claims remains with the Township.

The Township is a defendant in certain lawsuits and claims that have resulted from the ordinary course of its activities. The ultimate effect on the financial statements of the resolution of these matters is, in the opinion of management, not expected to be material considering available insurance coverage, legal defenses, and reserves.

The Township estimates the liability for general liability, workers' compensation, and medical claims that have been incurred through the end of the fiscal year, including claims that have been reported, as well as those that have not yet been reported. Generally, the funds that report each employee's compensation (the General Fund, Police Fund, Fire Fund, and Water and Sewer Fund, primarily) are used to liquidate the obligations for workers' compensation and medical claims. The obligation for general claims will be primarily liquidated by the General Fund and the Water and Sewer Fund. Changes in the estimated liability for the past two fiscal years were as follows:

	General Liability		Workers' Compensation		Medical Claims	
	2018	2017	2018	2017	2018	2017
Estimated liability - Beginning of year	\$ 361,194	\$ 1,806,583	\$ 583,090	\$ 644,239	\$ 100,646	\$ 100,646
Estimated claims incurred, including changes in estimates	(5,888)	141,466	282,975	244,700	2,398,770	4,188,846
Claim payments	(139,884)	(1,586,855)	(271,294)	(305,849)	(2,499,416)	(4,188,846)
Estimated liability - End of year	<u>\$ 215,422</u>	<u>\$ 361,194</u>	<u>\$ 594,771</u>	<u>\$ 583,090</u>	<u>\$ -</u>	<u>\$ 100,646</u>

Note 12 - Tax Abatements

The Township receives reduced property tax revenue as a result of Industrial Facilities Tax exemptions (PA 198 of 1974) granted within the boundaries of the Township. Industrial facility exemptions are intended to promote construction of new industrial facilities or to rehabilitate historical facilities.

For the fiscal year ended December 31, 2018, the Township's property tax revenue was reduced by approximately \$4,000 under this program.

Additionally, the Township has a payment in lieu of taxes agreement with businesses that provides housing of elderly citizens of low and moderate income, which are federally aided or statute authority aided in accordance with the State Housing Development Act of 1966, as provided in PA 346 of 1966. In lieu of paying taxes based on millage rates and taxable value, the properties pay a 4 percent service fee on rent income less prior year payment, all utilities paid by the owner, and rental losses.

For the fiscal year ended December 31, 2018, the Township abated approximately \$143,000 of taxes under this program. There are no provisions to recapture taxes.

There are no significant abatements made by other governments that reduce the Township's tax revenue.

Note 13 - Conduit Debt Obligations

In October 2016, the Economic Development Corporation (EDC) secured financing for an unrelated entity in the amount of \$34,935,000. Typically, these borrowings are repayable only from the borrower's repayment of loans, undisbursed proceeds, and related interest earnings, and the Township has no obligation for this debt. Therefore, the conduit debt obligations are not recorded as liabilities of the Township. The total outstanding bonds as of December 31, 2018 were \$34,425,000.

Note 14 - Subsequent Events

In March 2019, the Waterford Township Brownfield Redevelopment Authority received approval of approximately \$13 million in local and school tax capture to support a business development project that will demolish the vacant Summit Place Mall and construct a new business center in the Township.

Note 15 - Change in Accounting Principle

During the current year, the Township adopted GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefit Plans Other than Pensions*. As a result, the government-wide statements now include a liability for the unfunded portion of the Township's retiree healthcare costs. Some of the changes in this net OPEB liability will be recognized immediately as part of the OPEB expense measurement, and part will be deferred and recognized over future years. Refer to the other postemployment benefit plan footnote for further details. This change does not impact the General Fund or any other governmental funds.

As a result of implementing this statement, the beginning net positions of the governmental activities, business-type activities, and Water and Sewer Fund have been restated as follows:

	Governmental Activities	Business-type Activities/Water and Sewer Fund
Net position - December 31, 2017 - As previously reported	\$ 11,302,539	\$ 95,128,654
To eliminate the net OPEB liability under GASB Statement No. 45	(44,195,477)	(6,894,125)
To record the net OPEB liability	126,995,774	19,995,088
Net position - December 31, 2017 - As restated	<u>\$ (71,497,758)</u>	<u>\$ 82,027,691</u>

Required Supplemental Information

Charter Township of Waterford

Required Supplemental Information Budgetary Comparison Schedule General Fund

Year Ended December 31, 2018

	Original Budget	Amended Budget	Actual	Variance with Amended Budget
Revenue				
Property taxes	\$ 7,781,737	\$ 7,781,737	\$ 7,804,350	\$ 22,613
Intergovernmental	6,235,876	6,485,876	6,747,777	261,901
Charges for services	1,209,817	1,209,817	1,203,278	(6,539)
Fines and forfeitures	1,245,000	1,245,000	1,309,074	64,074
Licenses and permits	537,240	937,240	1,157,397	220,157
Investment income	562,598	562,598	644,273	81,675
Other revenue:				
Other miscellaneous income	75,609	75,609	102,709	27,100
Cable franchise fees	1,120,477	1,120,477	1,016,152	(104,325)
Refunds and reimbursements	200,000	550,488	554,270	3,782
Total revenue	18,968,354	19,968,842	20,539,280	570,438
Expenditures				
Current services:				
General government:				
Township board	54,627	54,627	52,592	2,035
Supervisor and assessing	848,312	848,607	784,724	63,883
Elections	80,195	96,945	105,056	(8,111)
Personnel	227,493	227,493	222,840	4,653
Information service	456,570	456,570	423,780	32,790
Treasurer	627,402	627,402	605,856	21,546
General services	1,638,888	1,656,088	1,574,505	81,583
Clerk	669,487	669,487	639,745	29,742
Retiree benefits	1,465,643	1,100,643	894,106	206,537
Facilities and operations	108,554	108,554	108,554	-
District court	2,151,895	2,599,594	2,440,936	158,658
Public safety	1,257,835	1,259,310	1,264,600	(5,290)
Planning department	1,063,881	1,064,766	975,879	88,887
Capital outlay	245,800	258,265	250,033	8,232
Debt service	191,838	191,838	183,279	8,559
Total expenditures	11,088,420	11,220,189	10,526,485	693,704
Excess of Revenue Over Expenditures	7,879,934	8,748,653	10,012,795	1,264,142
Other Financing (Uses) Sources				
Transfers out	(8,417,500)	(9,167,500)	(8,967,500)	200,000
Sale of capital assets	3,000	3,000	-	(3,000)
Total other financing uses	(8,414,500)	(9,164,500)	(8,967,500)	197,000
Net Change in Fund Balance	(534,566)	(415,847)	1,045,295	1,461,142
Fund Balance - Beginning of year	8,631,208	8,631,208	8,631,208	-
Fund Balance - End of year	\$ 8,096,642	\$ 8,215,361	\$ 9,676,503	\$ 1,461,142

Charter Township of Waterford

Required Supplemental Information
 Budgetary Comparison Schedule - Major Special Revenue Funds
 Police Fund

Year Ended December 31, 2018

	Original Budget	Amended Budget	Actual	Variance with Amended Budget
Revenue				
Property taxes	\$ 5,972,810	\$ 5,972,810	\$ 6,018,019	\$ 45,209
Intergovernmental	90,000	90,000	101,567	11,567
Charges for services	20,000	20,000	33,751	13,751
Fines and forfeitures	77,600	77,600	79,746	2,146
Licenses and permits	36,000	36,000	39,703	3,703
Investment income	49,944	49,944	76,707	26,763
Other revenue	402,099	402,099	258,782	(143,317)
Total revenue	6,648,453	6,648,453	6,608,275	(40,178)
Expenditures				
Current services - Public safety	12,686,370	12,703,050	12,242,029	461,021
Capital outlay	90,000	80,400	26,645	53,755
Total expenditures	12,776,370	12,783,450	12,268,674	514,776
Excess of Expenditures Over Revenue	(6,127,917)	(6,134,997)	(5,660,399)	474,598
Other Financing Sources - Transfers in	5,782,500	5,782,500	5,779,567	(2,933)
Net Change in Fund Balance	(345,417)	(352,497)	119,168	471,665
Fund Balance - Beginning of year	3,306,931	3,306,931	3,306,931	-
Fund Balance - End of year	<u>\$ 2,961,514</u>	<u>\$ 2,954,434</u>	<u>\$ 3,426,099</u>	<u>\$ 471,665</u>

Charter Township of Waterford

Required Supplemental Information Budgetary Comparison Schedule - Major Special Revenue Funds (Continued) Fire Fund

Year Ended December 31, 2018

	Original Budget	Amended Budget	Actual	Variance with Amended Budget
Revenue				
Property taxes	\$ 5,228,809	\$ 5,228,809	\$ 5,270,138	\$ 41,329
Intergovernmental	3,348,764	3,403,094	2,941,431	(461,663)
Charges for services	9,369,294	9,369,294	9,308,382	(60,912)
Investment income	20,638	20,638	57,183	36,545
Other revenue	110,100	110,100	143,532	33,432
Total revenue	18,077,605	18,131,935	17,720,666	(411,269)
Expenditures				
Current services - Public safety	19,830,977	19,845,607	18,593,923	1,251,684
Capital outlay	346,000	397,500	360,115	37,385
Total expenditures	20,176,977	20,243,107	18,954,038	1,289,069
Excess of Expenditures Over Revenue	(2,099,372)	(2,111,172)	(1,233,372)	877,800
Other Financing Sources (Uses)				
Transfers in	1,977,500	1,977,500	1,977,500	-
Transfers out	(100,000)	(250,000)	(250,000)	-
Sale of capital assets	20,000	20,000	5,000	(15,000)
Total other financing sources	1,897,500	1,747,500	1,732,500	(15,000)
Net Change in Fund Balance	(201,872)	(363,672)	499,128	862,800
Fund Balance - Beginning of year	1,642,543	1,642,543	1,642,543	-
Fund Balance - End of year	<u>\$ 1,440,671</u>	<u>\$ 1,278,871</u>	<u>\$ 2,141,671</u>	<u>\$ 862,800</u>

Charter Township of Waterford

Required Supplemental Information Schedule of Changes in the Net Pension Liability and Related Ratios Police and Fire Retirement System

	Last Five Fiscal Years*				
	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>
Total Pension Liability					
Service cost	\$ 1,533,744	\$ 1,506,484	\$ 1,582,620	\$ 1,616,532	\$ 1,738,314
Interest	7,374,206	7,267,038	7,240,552	7,100,713	6,949,918
Differences between expected and actual experience	(579,972)	216,738	(1,095,732)	397,609	-
Changes in assumptions	3,908,249	-	-	-	-
Benefit payments, including refunds	<u>(7,289,656)</u>	<u>(7,656,114)</u>	<u>(6,966,018)</u>	<u>(7,234,304)</u>	<u>(5,711,969)</u>
Net Change in Total Pension Liability	4,946,571	1,334,146	761,422	1,880,550	2,976,263
Total Pension Liability - Beginning of year	<u>108,223,757</u>	<u>106,889,611</u>	<u>106,128,189</u>	<u>104,247,639</u>	<u>101,271,376</u>
Total Pension Liability - End of year	<u>\$ 113,170,328</u>	<u>\$ 108,223,757</u>	<u>\$ 106,889,611</u>	<u>\$ 106,128,189</u>	<u>\$ 104,247,639</u>
Plan Fiduciary Net Position					
Contributions - Employer	\$ 2,851,743	\$ 2,946,541	\$ 3,188,351	\$ 3,263,241	\$ 3,386,289
Contributions - Member	359,818	381,439	367,992	395,861	446,148
Net investment (loss) income	(5,483,678)	13,507,853	9,778,003	(1,162,337)	5,093,530
Administrative expenses	(561,214)	(458,499)	(452,779)	(522,512)	(560,067)
Benefit payments, including refunds	<u>(7,289,655)</u>	<u>(7,656,114)</u>	<u>(6,966,017)</u>	<u>(7,234,304)</u>	<u>(5,711,969)</u>
Net Change in Plan Fiduciary Net Position	(10,122,986)	8,721,220	5,915,550	(5,260,051)	2,653,931
Plan Fiduciary Net Position - Beginning of year	<u>97,481,518</u>	<u>88,760,298</u>	<u>82,844,748</u>	<u>88,104,799</u>	<u>85,450,868</u>
Plan Fiduciary Net Position - End of year	<u>\$ 87,358,532</u>	<u>\$ 97,481,518</u>	<u>\$ 88,760,298</u>	<u>\$ 82,844,748</u>	<u>\$ 88,104,799</u>
Township's Net Pension Liability - Ending	<u>\$ 25,811,796</u>	<u>\$ 10,742,239</u>	<u>\$ 18,129,313</u>	<u>\$ 23,283,441</u>	<u>\$ 16,142,840</u>
Plan Fiduciary Net Position as a Percentage of Total Pension Liability	77.19 %	90.07 %	83.04 %	78.06 %	84.51 %
Covered Payroll	\$ 6,426,594	\$ 6,344,741	\$ 6,651,574	\$ 6,794,855	\$ 7,273,279
Township's Net Pension Liability as a Percentage of Covered Payroll	401.64 %	169.31 %	272.56 %	342.66 %	221.95 %

*GASB Statement No. 67 was implemented for the fiscal year ended December 31, 2014. Data will be added each of the succeeding years until 10 years of such information is available.

Charter Township of Waterford

Required Supplemental Information Schedule of Changes in the Net Pension Liability and Related Ratios General Employees' Retirement System

	Last Five Fiscal Years*				
	2018	2017	2016	2015	2014
Total Pension Liability					
Service cost	\$ 700,386	\$ 783,877	\$ 820,172	\$ 900,676	\$ 983,329
Interest	4,330,278	4,390,174	4,341,582	4,322,215	4,209,174
Differences between expected and actual experience	(118,483)	(2,236,843)	(625,074)	(1,163,975)	-
Changes in assumptions	1,693,457	-	-	-	-
Benefit payments, including refunds	(3,746,991)	(3,755,287)	(3,893,369)	(3,590,647)	(3,481,965)
Net Change in Total Pension Liability	2,858,647	(818,079)	643,311	468,269	1,710,538
Total Pension Liability - Beginning of year	63,384,410	64,202,489	63,559,178	63,090,909	61,380,371
Total Pension Liability - End of year	\$ 66,243,057	\$ 63,384,410	\$ 64,202,489	\$ 63,559,178	\$ 63,090,909
Plan Fiduciary Net Position					
Contributions - Employer	\$ 674,987	\$ 989,146	\$ 1,249,587	\$ 1,555,154	\$ 1,729,217
Contributions - Member	11,627	11,489	14,822	17,565	17,609
Net investment (loss) income	(2,814,131)	9,243,114	2,688,872	721,215	3,720,145
Administrative expenses	(416,490)	(383,813)	(368,089)	(401,114)	(406,264)
Benefit payments, including refunds	(3,746,991)	(3,755,287)	(3,893,369)	(3,590,647)	(3,481,965)
Net Change in Plan Fiduciary Net Position	(6,290,998)	6,104,649	(308,177)	(1,697,827)	1,578,742
Plan Fiduciary Net Position - Beginning of year	65,536,884	59,432,235	59,740,412	61,438,239	59,859,497
Plan Fiduciary Net Position - End of year	\$ 59,245,886	\$ 65,536,884	\$ 59,432,235	\$ 59,740,412	\$ 61,438,239
Township's Net Pension Liability (Asset) - Ending	\$ 6,997,171	\$ (2,152,474)	\$ 4,770,254	\$ 3,818,766	\$ 1,652,670
Plan Fiduciary Net Position as a Percentage of Total Pension Liability	89.44 %	103.40 %	92.57 %	93.99 %	97.38 %
Covered Payroll	\$ 3,911,445	\$ 4,463,488	\$ 4,525,599	\$ 4,948,841	\$ 5,664,337
Township's Net Pension Liability (Asset) as a Percentage of Covered Payroll	178.89 %	(48.22)%	105.41 %	77.16 %	29.18 %

*GASB Statement No. 67 was implemented for the fiscal year ended December 31, 2014. Data will be added each of the succeeding years until 10 years of such information is available.

Charter Township of Waterford

Required Supplemental Information Schedule of Pension Contributions Police and Fire Retirement System

**Last Ten Fiscal Years
Years Ended December 31**

	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009
Actuarially determined contribution	\$ 2,851,743	\$ 2,946,541	\$ 3,188,351	\$ 3,263,241	\$ 3,386,289	\$ 3,251,498	\$ 3,356,274	\$ 3,227,187	\$ 3,416,401	\$ 3,451,506
Contributions in relation to the actuarially determined contribution	<u>2,851,743</u>	<u>2,946,541</u>	<u>3,188,351</u>	<u>3,263,241</u>	<u>3,386,289</u>	<u>3,251,498</u>	<u>3,356,274</u>	<u>3,227,187</u>	<u>3,416,401</u>	<u>3,451,506</u>
Contribution Deficiency	\$ -									
Covered Payroll	\$ 6,426,594	\$ 6,344,741	\$ 6,651,574	\$ 6,794,855	\$ 7,273,279	\$ 8,800,000	\$ 8,100,000	\$ 9,000,000	\$11,000,000	\$10,900,000
Contributions as a Percentage of Covered Payroll	44.37 %	46.44 %	47.93 %	48.03 %	46.56 %	36.95 %	41.44 %	35.86 %	31.06 %	31.67 %

Notes to Schedule of Contributions

Actuarial valuation information relative to the determination of contributions:

Valuation date Actuarially determined contribution rates are calculated as of December 31, which is 12 months prior to the beginning of the fiscal year in which contributions are reported. Specifically, the fiscal year 2018 contribution was determined from the December 31, 2016 actuarial valuation.

Methods and assumptions used to determine contribution rates:

Actuarial cost method	Entry age normal
Amortization method	Level dollar, closed
Remaining amortization period	17 years
Asset valuation method	Four-year smoothed market; 25 percent corridor
Inflation	3.00 percent - Approximate; No explicit price inflation assumptions used in this valuation.
Salary increase	4.0 to 11.9 percent including inflation
Investment rate of return	7.00 percent
Retirement age	Experience-based table of rates that are specific to the type of eligibility condition
Mortality	RP-2000 Combined Healthy Mortality Table projected forward 17 years using Scale BB for both males and females
Other information	None noted

Charter Township of Waterford

Required Supplemental Information Schedule of Pension Contributions General Employees' Retirement System

**Last Ten Fiscal Years
Years Ended December 31**

	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009
Actuarially determined contribution	\$ 674,987	\$ 989,146	\$ 1,249,587	\$ 1,555,154	\$ 1,729,217	\$ 1,922,105	\$ 2,017,208	\$ 2,011,374	\$ 2,208,556	\$ 2,204,481
Contributions in relation to the actuarially determined contribution	674,987	989,146	1,249,587	1,555,154	1,729,217	1,922,105	2,017,208	2,011,374	2,208,556	2,204,481
Contribution Deficiency	\$ -									
Covered Payroll	\$ 3,911,445	\$ 4,463,488	\$ 4,525,599	\$ 4,948,841	\$ 5,664,337	\$ 5,800,000	\$ 6,200,000	\$ 7,000,000	\$ 8,100,000	\$ 8,300,000
Contributions as a Percentage of Covered Payroll	17.26 %	22.16 %	27.61 %	31.42 %	30.53 %	33.14 %	32.54 %	28.73 %	27.27 %	26.56 %

Notes to Schedule of Contributions

Actuarial valuation information relative to the determination of contributions:

Valuation date Actuarially determined contribution rates are calculated as of December 31, which is 12 months prior to the beginning of the fiscal year in which contributions are reported. Specifically, the fiscal year 2018 contribution was determined from the December 31, 2016 actuarial valuation.

Methods and assumptions used to determine contribution rates:

Actuarial cost method	Entry age normal
Amortization method	Level dollar, closed
Remaining amortization period	16 years
Asset valuation method	Four-year smoothed market; 25 percent corridor
Inflation	4.50 percent wage inflation, 2.75 percent price inflation
Salary increase	4.5 to 7.7 percent including inflation
Investment rate of return	7.00 percent
Retirement age	Experience-based table of rates that are specific to the type of eligibility condition
Mortality	RP-2000 Combined Healthy Mortality Table projected forward 17 years using Scale BB for both males and females
Other information	The DROP was closed to dispatch union members not deemed eligible as of December 31, 2016

Charter Township of Waterford

Required Supplemental Information Schedule of Pension Investment Returns

Last Five Fiscal Years*
Years Ended December 31

	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>
Annual money-weighted rate of return - Net of investment related expenses:					
Police and Fire Retirement System	(5.56)%	15.54 %	7.10 %	(1.50)%	6.10 %
General Employees' Retirement System	(3.74)%	15.99 %	4.70 %	1.30 %	6.30 %

*GASB Statement No. 67 was implemented for the fiscal year ended December 31, 2014. Data will be added each of the succeeding years until 10 years of such information is available.

Charter Township of Waterford

Required Supplemental Information Schedule of Changes in the Total OPEB Liability and Related Ratios

	Last Two Fiscal Years*	
	<u>2018</u>	<u>2017</u>
Total OPEB Liability		
Service cost	\$ 2,740,489	\$ 2,720,492
Interest	10,348,900	9,903,055
Benefit payments, including refunds	<u>(5,753,465)</u>	<u>(5,795,277)</u>
Net Change in Total OPEB Liability	7,335,924	6,828,270
Total OPEB Liability - Beginning of year	<u>160,720,357</u>	<u>153,892,087</u>
Total OPEB Liability - End of year	<u>\$ 168,056,281</u>	<u>\$ 160,720,357</u>
Plan Fiduciary Net Position		
Contributions - Employer	\$ 7,011,665	\$ 6,646,677
Contributions - Active and inactive plan members not yet receiving benefits	54,245	54,831
Net investment (loss) income	(934,859)	1,431,730
Administrative expenses	(49,049)	(30,839)
Benefit payments, including refunds	<u>(5,753,465)</u>	<u>(5,795,277)</u>
Net Change in Plan Fiduciary Net Position	328,537	2,307,122
Plan Fiduciary Net Position - Beginning of year	<u>13,729,495</u>	<u>11,422,373</u>
Plan Fiduciary Net Position - End of year	<u>\$ 14,058,032</u>	<u>\$ 13,729,495</u>
Net OPEB Liability - Ending	<u>\$ 153,998,249</u>	<u>\$ 146,990,862</u>
Plan Fiduciary Net Position as a Percentage of Total OPEB Liability	8.37 %	8.54 %
Covered Employee Payroll	\$ 14,194,380	\$ -

*GASB Statement No. 74 was implemented for the fiscal year ended December 31, 2017. Data will be added each of the succeeding years until 10 years of such information is available.

Charter Township of Waterford

Required Supplemental Information Schedule of OPEB Contributions

Last Ten Fiscal Years Years Ended December 31

	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009
Actuarially determined contribution	\$ 13,698,860	\$ 13,688,352	\$ 11,999,428	\$ 12,015,032	\$ 10,824,674	\$ 10,816,125	\$ 9,471,186	\$ 9,354,307	\$ 8,909,087	\$ 8,525,832
Contributions in relation to the actuarially determined contribution	7,011,665	6,646,677	6,542,562	5,618,905	5,493,180	4,922,028	4,927,765	5,237,185	4,288,345	3,712,187
Contribution Deficiency	\$ (6,687,195)	\$ (7,041,675)	\$ (5,456,866)	\$ (6,396,127)	\$ (5,331,494)	\$ (5,894,097)	\$ (4,543,421)	\$ (4,117,122)	\$ (4,620,742)	\$ (4,813,645)
Covered Employee Payroll	\$ 14,194,380	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Notes to Schedule of Contributions

Actuarial valuation information relative to the determination of contributions:

Valuation date Actuarially determined contribution rates are calculated as of December 31 of even numbered years, which is one day prior to the beginning of the fiscal year biennium in which contributions are reported.

Methods and assumptions used to determine contribution rates:

Actuarial cost method	Entry age normal
Amortization method	Level percent of payroll for police members; Level dollar for general and fire members
Remaining amortization period	30 years, open
Asset valuation method	Market value
Inflation	3.00 percent
Healthcare cost trend rates	Trend starting at 9.00 percent in 2017, grading to 4.50 percent in 2026
Salary increase	4.25 to 7.46 percent for general members and 3.50 to 11.42 percent for police and fire members
Investment rate of return	6.50 percent, net of OPEB plan expenses
Retirement age	Experience-based table of rates that are specific to the type of eligibility condition
Mortality	Healthy pre- and postretirement: RP-2000 Combined Healthy Mortality Table projected 17 years using scale BB. Disabled retirement: RP-2000 Combined Healthy Mortality Table projected 17 years using scale BB, set forward 10 years
Other information	None

Charter Township of Waterford

**Required Supplemental Information
Schedule of OPEB Investment Returns**

**Last Two Fiscal Years*
Years Ended December 31**

	<u>2018</u>	<u>2017</u>
Annual money-weighted rate of return - Net of investment expense	(6.20)%	11.70 %

*GASB Statement No. 74 was implemented for the fiscal year ended December 31, 2017. Data will be added each of the succeeding years until 10 years of such information is available.

Budgetary Information

Annual budgets are adopted on a basis consistent with generally accepted accounting principles for the General Fund, the Debt Service Fund, the Improvement Revolving Fund, and all special revenue funds, except that operating transfers and debt proceeds have been included in the "revenue" and "expenditures" categories, rather than as "other financing sources (uses)." All annual appropriations lapse at fiscal year end; encumbrances are not included as expenditures. During the year, the budget was amended in a legally permissible manner.

The Township follows the following procedures in establishing the budgetary data reflected in the financial statements:

1. On or before September 1, the office of fiscal and human services director and the township supervisor prepare a proposed operating budget for the fiscal year commencing on January 1 and submit it to the board. The budget must be adopted through a passage of a budget resolution no later than November 1.
2. Public hearings are conducted to obtain citizen comments.
3. The legislative budget is adopted by fund on a departmental basis. Line item detail is provided as a general guideline. Throughout the year, the board receives requests to amend the activity budget. All amendments must be approved by a vote of the township board. Changes in line items within an activity may be made with the approval of the director of fiscal and human resources.

A reconciliation of the General Fund budgetary comparison schedule to the fund-based statement of revenue, expenditures, and changes in fund balances is as follows:

	Total Revenue	Total Expenditures
General Fund amounts per operating statement	\$ 20,552,912	\$ 10,526,485
Cemetery Care Fund	(11,807)	-
Workers' Compensation Fund	(1,825)	-
	<u>\$ 20,539,280</u>	<u>\$ 10,526,485</u>
Amounts per budget statement		

Excess of Expenditures Over Appropriations in Budgeted Funds

During the year, the Township incurred expenditures that were in excess of the amounts budgeted, as follows:

	Budget	Actual	Variance
General Fund - Elections	\$ 96,945	\$ 105,056	\$ (8,111)
General Fund - Public safety	1,259,310	1,264,600	(5,290)

The Community Development Block Grant Fund was not budgeted for on a fiscal year basis. The Weed Control Fund, S.A.D. Road Paving Fund, Capital Project Allocation Fund, and Michigan Indigent Defense Fund were not budgeted for in the current year.

At December 31, 2018, the Township had governmental activities unrestricted net deficit of \$132,654,683, which does not meet the definition of a deficit, as defined by the State of Michigan.

Other Supplemental Information

Special Revenue Funds

These funds are used to account for specific revenue sources, which are legally restricted to expenditures for specific functions or activities. Restrictions may be imposed by state statute, the state constitution, township board resolution or action, or the electorate through the approval of special dedicated millages.

Community Development Block Grant Fund

Entitlements received under the federally funded Community Development Block Grant Program are accounted for in this fund. These funds are used to provide approved block grant projects and programs.

Library Fund

This fund accounts for specific property taxes and related revenue used to stock books and operate programs in the various township libraries.

Library Donations Fund

This fund accounts for donations received from the public. These funds are used as needed for children's programs, library furniture, and improvements to the facility.

Weed Control Fund

These funds are used to account for revenue and expenditures related to special assessments for weed control of various lakes within the Township.

Police Restricted Use Fund

This fund is used to account for monies seized in arrests for illegal drug activities and from various grants issued to the police department. Functions and activities include drug enforcement and education, departmental training, and expenses associated with the grants received.

Nature Center Fund

This fund was established in 2005 to account for grant monies used for the maintenance and operation of the Drayton Plains Nature Center.

Cable Commission Fund

This fund was created to account for the cable-related activities of the Township. The Township receives PEG and franchise fees from cable providers.

Parks and Recreation Fund

This fund accounts for the operations of the parks and recreation activities of the Township. Funding is provided primarily through a local property tax levy.

Michigan Indigent Defense Fund

This fund was established in 2018 to account for state grant revenue and local share contributions that are used to provide indigent defense, as required by the Michigan Indigent Defense Commission and Public Act 93 of 2013.

Debt Service Fund

This fund is used to account for the accumulation of resources for the periodic payment of principal and interest on police and fire long-term debt.

Capital Project Funds

Capital project funds are used to account for the acquisition and construction of major capital facilities other than those financed by proprietary funds and trust funds. Revenue sources include General Fund transfers, grants from other units of government, private contributions, and bond proceeds.

Improvement Revolving Fund

This fund provides accounting and budgeting for resources designated for township building and equipment improvements and land acquisition. Funding is provided from the General Fund and the sale of capital assets.

Capital Project Allocation Fund

This fund accounts for the prefunding for future identified capital project needs. Funding is provided from the General Fund, Fire Fund, and Parks and Recreation Fund.

S.A.D. Road Paving Fund

This fund accounts for the construction phase of local improvements that benefit property owners and, as such, are ultimately financed through special assessments.

Charter Township of Waterford

	Special Revenue Funds					
	Community Development Block Grant	Library	Library Donations	Weed Control	Police Restricted Use	Nature Center
Assets						
Cash and investments	\$ 555,470	\$ 2,389,691	\$ 46,089	\$ 457,440	\$ 1,091,809	\$ 554,880
Receivables:						
Property taxes receivable	-	860,228	-	-	9,825	-
Special assessments receivable	-	-	-	112,411	-	-
Due from other governmental units	85,880	8,640	-	-	-	-
Rehabilitation loan receivable	1,125,637	-	-	-	-	-
Other receivables	-	11,405	-	-	-	-
Total assets	\$ 1,766,987	\$ 3,269,964	\$ 46,089	\$ 569,851	\$ 1,101,634	\$ 554,880
Liabilities						
Accounts payable	\$ 9,974	\$ 18,164	\$ 305	\$ 5,928	\$ 2,264	\$ -
Due to other funds	-	-	-	-	-	-
Accrued liabilities and other	-	27,592	-	-	-	-
Total liabilities	9,974	45,756	305	5,928	2,264	-
Deferred Inflows of Resources						
Unavailable revenue	1,125,637	-	-	-	-	-
Property taxes levied for the following year	-	1,884,273	-	268,989	-	-
Total deferred inflows of resources	1,125,637	1,884,273	-	268,989	-	-
Total liabilities and deferred inflows of resources	1,135,611	1,930,029	305	274,917	2,264	-
Fund Balances						
Restricted:						
Police	-	-	-	-	1,099,370	-
Debt service	-	-	-	-	-	-
Community development	431,376	-	-	-	-	-
Library	-	1,339,935	45,784	-	-	-
Weed control	-	-	-	294,934	-	-
Nature center	-	-	-	-	-	554,880
Committed:						
Capital projects - General	-	-	-	-	-	-
Capital projects - Fire	-	-	-	-	-	-
Capital projects - Parks and recreation	-	-	-	-	-	-
Assigned:						
Cable-related projects	-	-	-	-	-	-
Community development	200,000	-	-	-	-	-
Capital projects	-	-	-	-	-	-
Parks and recreation	-	-	-	-	-	-
Total fund balances	631,376	1,339,935	45,784	294,934	1,099,370	554,880
Total liabilities, deferred inflows of resources, and fund balances	\$ 1,766,987	\$ 3,269,964	\$ 46,089	\$ 569,851	\$ 1,101,634	\$ 554,880

Other Supplemental Information
Combining Balance Sheet
Nonmajor Governmental Funds

December 31, 2018

Special Revenue Funds				Capital Project Funds			Total
Cable Commission	Parks and Recreation	Michigan Indigent Defense	Debt Service Fund	Improvement Revolving	Capital Project Allocation	S.A.D. Road Paving	
\$ 784,841	\$ 1,755,864	\$ -	\$ 129,340	\$ 3,549,542	\$ 1,054,391	\$ -	\$ 12,369,357
-	471,716	-	-	-	-	-	1,341,769
-	-	-	-	68,670	-	-	181,081
-	4,738	46,993	6,296	-	-	-	152,547
-	-	-	-	-	-	-	1,125,637
-	-	-	-	-	-	-	11,405
\$ 784,841	\$ 2,232,318	\$ 46,993	\$ 135,636	\$ 3,618,212	\$ 1,054,391	\$ -	\$ 15,181,796
\$ 218	\$ 26,395	\$ -	\$ -	\$ 20,294	\$ -	\$ -	\$ 83,542
-	-	46,993	-	-	-	-	46,993
1,589	19,011	-	-	-	-	-	48,192
1,807	45,406	46,993	-	20,294	-	-	178,727
-	-	-	-	69,391	-	-	1,195,028
-	1,033,263	-	-	-	-	-	3,186,525
-	1,033,263	-	-	69,391	-	-	4,381,553
1,807	1,078,669	46,993	-	89,685	-	-	4,560,280
-	-	-	-	-	-	-	1,099,370
-	-	-	135,636	-	-	-	135,636
-	-	-	-	-	-	-	431,376
-	-	-	-	-	-	-	1,385,719
-	-	-	-	-	-	-	294,934
-	-	-	-	-	-	-	554,880
-	-	-	-	-	426,514	-	426,514
-	-	-	-	-	444,087	-	444,087
-	-	-	-	-	183,790	-	183,790
783,034	-	-	-	-	-	-	783,034
-	-	-	-	-	-	-	200,000
-	-	-	-	3,528,527	-	-	3,528,527
-	1,153,649	-	-	-	-	-	1,153,649
783,034	1,153,649	-	135,636	3,528,527	1,054,391	-	10,621,516
\$ 784,841	\$ 2,232,318	\$ 46,993	\$ 135,636	\$ 3,618,212	\$ 1,054,391	\$ -	\$ 15,181,796

Charter Township of Waterford

	Special Revenue Funds					
	Community Development Block Grant	Library	Library Donations	Weed Control	Police Restricted Use	Nature Center
Revenue						
Property taxes	\$ -	\$ 1,820,878	\$ -	\$ -	\$ -	\$ -
Special assessments	-	-	-	296,914	-	-
Intergovernmental:						
Federal grants	495,450	-	-	-	42,258	-
State-shared revenue and grants	-	61,437	-	-	579,253	-
Charges for services	-	-	-	-	-	-
Fines and forfeitures	-	187,845	-	-	-	-
Licenses and permits	-	-	-	-	-	-
Investment income	-	25,208	-	-	14,400	7,514
Other revenue:						
Local contributions	-	-	22,770	-	10,940	-
Other miscellaneous income	-	5,104	-	-	20,567	-
Cable franchise fees	-	-	-	-	-	-
Total revenue	495,450	2,100,472	22,770	296,914	667,418	7,514
Expenditures						
Current services:						
General government	5,036	-	-	-	-	-
Public safety	-	-	-	-	646,014	-
Public works	-	-	-	-	-	-
Community and economic development	500,101	-	-	-	-	-
Recreation and culture	-	1,891,783	26,814	287,159	-	-
Capital outlay	-	112,321	1,112	-	-	-
Debt service	-	-	-	-	-	-
Total expenditures	505,137	2,004,104	27,926	287,159	646,014	-
Excess of Revenue (Under) Over Expenditures	(9,687)	96,368	(5,156)	9,755	21,404	7,514
Other Financing Sources (Uses)						
Transfers in	-	-	-	-	-	-
Transfers out	-	-	-	-	-	-
Sale of capital assets	-	-	-	-	-	-
Total other financing sources	-	-	-	-	-	-
Net Change in Fund Balances	(9,687)	96,368	(5,156)	9,755	21,404	7,514
Fund Balances - Beginning of year	641,063	1,243,567	50,940	285,179	1,077,966	547,366
Fund Balances - End of year	\$ 631,376	\$ 1,339,935	\$ 45,784	\$ 294,934	\$ 1,099,370	\$ 554,880

Other Supplemental Information

Combining Statement of Revenue, Expenditures, and Changes in Fund Balances

Nonmajor Governmental Funds

Year Ended December 31, 2018

Special Revenue Funds				Capital Project Funds			Total
Cable Commission	Parks and Recreation	Michigan Indigent Defense	Debt Service Fund	Improvement Revolving	Capital Project Allocation	S.A.D. Road Paving	
\$ -	\$ 1,000,574	\$ -	\$ 1,328,055	\$ -	\$ -	\$ -	\$ 4,149,507
-	-	-	-	25,352	-	-	322,266
-	-	-	-	-	-	-	537,708
-	4,949	46,993	6,296	6,300	-	-	705,228
275,621	660,648	-	-	-	-	-	936,269
-	-	-	-	-	-	-	187,845
-	-	-	-	29,393	-	-	29,393
10,433	20,756	-	695	46,884	10,952	167	137,009
-	-	-	-	-	-	-	33,710
-	15,931	-	3,754	2,730	-	-	48,086
125,591	-	7,781	-	-	-	-	133,372
411,645	1,702,858	54,774	1,338,800	110,659	10,952	167	7,220,393
383,448	-	21,909	-	-	-	-	410,393
-	-	32,865	-	-	-	-	678,879
-	-	-	-	179,578	-	-	179,578
-	-	-	-	-	-	-	500,101
-	1,570,485	-	-	-	-	17,011	3,793,252
355	144,014	-	-	460,871	12,796	-	731,469
-	-	-	1,383,800	226,139	-	-	1,609,939
383,803	1,714,499	54,774	1,383,800	866,588	12,796	17,011	7,903,611
27,842	(11,641)	-	(45,000)	(755,929)	(1,844)	(16,844)	(683,218)
-	225,000	-	-	760,000	465,000	-	1,450,000
-	(45,000)	-	-	-	-	-	(45,000)
-	-	-	-	3,900	-	-	3,900
-	180,000	-	-	763,900	465,000	-	1,408,900
27,842	168,359	-	(45,000)	7,971	463,156	(16,844)	725,682
755,192	985,290	-	180,636	3,520,556	591,235	16,844	9,895,834
\$ 783,034	\$ 1,153,649	\$ -	\$ 135,636	\$ 3,528,527	\$ 1,054,391	\$ -	\$ 10,621,516

Charter Township of Waterford

Other Supplemental Information Budgetary Comparison Schedule - Nonmajor Governmental Funds Library

Year Ended December 31, 2018

	<u>Original Budget</u>	<u>Amended Budget</u>	<u>Actual</u>	<u>Variance with Amended Budget</u>
Revenue				
Property taxes	\$ 1,804,909	\$ 1,804,909	\$ 1,820,878	\$ 15,969
Intergovernmental	44,000	44,000	61,437	17,437
Fines and forfeitures	179,500	179,500	187,845	8,345
Investment income	13,332	13,332	25,208	11,876
Other revenue	3,000	3,000	5,104	2,104
Total revenue	2,044,741	2,044,741	2,100,472	55,731
Expenditures				
Current services - Recreation and culture - Library	2,011,749	2,012,044	1,891,783	120,261
Capital outlay	138,649	138,649	112,321	26,328
Total expenditures	2,150,398	2,150,693	2,004,104	146,589
Net Change in Fund Balance	(105,657)	(105,952)	96,368	202,320
Fund Balance - Beginning of year	1,243,567	1,243,567	1,243,567	-
Fund Balance - End of year	<u>\$ 1,137,910</u>	<u>\$ 1,137,615</u>	<u>\$ 1,339,935</u>	<u>\$ 202,320</u>

Charter Township of Waterford

Other Supplemental Information
 Budgetary Comparison Schedule - Nonmajor Governmental Funds
 (Continued)
 Library Donations

Year Ended December 31, 2018

	<u>Original Budget</u>	<u>Amended Budget</u>	<u>Actual</u>	<u>Variance with Amended Budget</u>
Revenue - Other revenue - Local donations	\$ 26,500	\$ 26,500	\$ 22,770	\$ (3,730)
Expenditures				
Current services - Recreation and culture - Library	36,500	36,500	26,814	9,686
Capital outlay	18,500	18,500	1,112	17,388
Total expenditures	<u>55,000</u>	<u>55,000</u>	<u>27,926</u>	<u>27,074</u>
Net Change in Fund Balance	(28,500)	(28,500)	(5,156)	23,344
Fund Balance - Beginning of year	<u>50,940</u>	<u>50,940</u>	<u>50,940</u>	<u>-</u>
Fund Balance - End of year	<u><u>\$ 22,440</u></u>	<u><u>\$ 22,440</u></u>	<u><u>\$ 45,784</u></u>	<u><u>\$ 23,344</u></u>

Charter Township of Waterford

Other Supplemental Information
 Budgetary Comparison Schedule - Nonmajor Governmental Funds
 (Continued)
 Police Restricted Use

Year Ended December 31, 2018

	Original Budget	Amended Budget	Actual	Variance with Amended Budget
Revenue				
Intergovernmental	\$ 35,000	\$ 35,000	\$ 621,511	\$ 586,511
Investment income	6,396	6,396	14,400	8,004
Other revenue	23,000	23,000	31,507	8,507
Total revenue	64,396	64,396	667,418	603,022
Expenditures - Current - Public safety	97,728	97,728	646,014	(548,286)
Net Change in Fund Balance	(33,332)	(33,332)	21,404	54,736
Fund Balance - Beginning of year	1,077,966	1,077,966	1,077,966	-
Fund Balance - End of year	<u>\$ 1,044,634</u>	<u>\$ 1,044,634</u>	<u>\$ 1,099,370</u>	<u>\$ 54,736</u>

Charter Township of Waterford

Other Supplemental Information
Budgetary Comparison Schedule - Nonmajor Governmental Funds
(Continued)
Nature Center

Year Ended December 31, 2018

	<u>Original Budget</u>	<u>Amended Budget</u>	<u>Actual</u>	<u>Variance with Amended Budget</u>
Revenue - Investment income	\$ 705	\$ 705	\$ 7,514	\$ 6,809
Expenditures	-	-	-	-
Net Change in Fund Balance	705	705	7,514	6,809
Fund Balance - Beginning of year	<u>547,366</u>	<u>547,366</u>	<u>547,366</u>	<u>-</u>
Fund Balance - End of year	<u>\$ 548,071</u>	<u>\$ 548,071</u>	<u>\$ 554,880</u>	<u>\$ 6,809</u>

Charter Township of Waterford

Other Supplemental Information
Budgetary Comparison Schedule - Nonmajor Governmental Funds
(Continued)
Cable Commission

Year Ended December 31, 2018

	Original Budget	Amended Budget	Actual	Variance with Amended Budget
Revenue				
Charges for services	\$ 290,202	\$ 290,202	\$ 275,621	\$ (14,581)
Investment income	3,705	3,705	10,433	6,728
Other revenue	125,216	125,216	125,591	375
Total revenue	419,123	419,123	411,645	(7,478)
Expenditures				
Current services - General government	407,822	407,822	383,448	24,374
Capital outlay	7,675	7,675	355	7,320
Total expenditures	415,497	415,497	383,803	31,694
Net Change in Fund Balance	3,626	3,626	27,842	24,216
Fund Balance - Beginning of year	755,192	755,192	755,192	-
Fund Balance - End of year	<u><u>\$ 758,818</u></u>	<u><u>\$ 758,818</u></u>	<u><u>\$ 783,034</u></u>	<u><u>\$ 24,216</u></u>

Charter Township of Waterford

Other Supplemental Information
 Budgetary Comparison Schedule - Nonmajor Governmental Funds
 (Continued)
 Parks and Recreation

Year Ended December 31, 2018

	Original Budget	Amended Budget	Actual	Variance with Amended Budget
Revenue				
Property taxes	\$ 995,335	\$ 995,335	\$ 1,000,574	\$ 5,239
Intergovernmental	25,100	25,100	4,949	(20,151)
Charges for services	623,091	623,091	660,648	37,557
Investment income	9,237	9,237	20,756	11,519
Other revenue	12,500	12,500	15,931	3,431
Total revenue	1,665,263	1,665,263	1,702,858	37,595
Expenditures				
Current services - Recreation and culture	1,686,358	1,710,448	1,570,485	139,963
Capital outlay	159,850	159,850	144,014	15,836
Total expenditures	1,846,208	1,870,298	1,714,499	155,799
Excess of Expenditures Over Revenue	(180,945)	(205,035)	(11,641)	193,394
Other Financing Sources (Uses)				
Transfers in	225,000	225,000	225,000	-
Transfers out	(45,000)	(45,000)	(45,000)	-
Sale of capital assets	350	350	-	(350)
Total other financing sources	180,350	180,350	180,000	(350)
Net Change in Fund Balance	(595)	(24,685)	168,359	193,044
Fund Balance - Beginning of year	985,290	985,290	985,290	-
Fund Balance - End of year	<u>\$ 984,695</u>	<u>\$ 960,605</u>	<u>\$ 1,153,649</u>	<u>\$ 193,044</u>

Charter Township of Waterford

Other Supplemental Information
 Budgetary Comparison Schedule - Nonmajor Governmental Funds
 (Continued)
 Debt Service Fund

Year Ended December 31, 2018

	Original Budget	Amended Budget	Actual	Variance with Amended Budget
Revenue				
Property taxes	\$ 1,320,916	\$ 1,320,916	\$ 1,328,055	\$ 7,139
Intergovernmental	-	-	6,296	6,296
Investment income	200	200	695	495
Other revenue	1,900	1,900	3,754	1,854
Total revenue	1,323,016	1,323,016	1,338,800	15,784
Expenditures				
Debt service:				
Principal	1,360,000	1,360,000	1,360,000	-
Interest on long-term debt	24,300	24,300	23,800	500
Total expenditures	1,384,300	1,384,300	1,383,800	500
Net Change in Fund Balance	(61,284)	(61,284)	(45,000)	16,284
Fund Balance - Beginning of year	180,636	180,636	180,636	-
Fund Balance - End of year	<u>\$ 119,352</u>	<u>\$ 119,352</u>	<u>\$ 135,636</u>	<u>\$ 16,284</u>

Charter Township of Waterford

Other Supplemental Information Budgetary Comparison Schedule - Nonmajor Governmental Funds (Continued) Improvement Revolving

Year Ended December 31, 2018

	Original Budget	Amended Budget	Actual	Variance with Amended Budget
Revenue				
Special assessments	\$ -	\$ -	\$ 25,352	\$ 25,352
Intergovernmental	45,000	90,000	6,300	(83,700)
Licenses and permits	27,500	27,500	29,393	1,893
Investment income	15,021	15,021	46,884	31,863
Other revenue	-	-	2,730	2,730
Total revenue	<u>87,521</u>	<u>132,521</u>	<u>110,659</u>	<u>(21,862)</u>
Expenditures				
Current services - General government	88,000	118,000	179,578	(61,578)
Capital outlay	1,033,970	835,641	460,871	374,770
Debt service	-	235,000	226,139	8,861
Total expenditures	<u>1,121,970</u>	<u>1,188,641</u>	<u>866,588</u>	<u>322,053</u>
Excess of Expenditures Over Revenue	(1,034,449)	(1,056,120)	(755,929)	300,191
Other Financing Sources				
Transfers in	160,000	760,000	760,000	-
Sale of capital assets	-	-	3,900	3,900
Total other financing sources	<u>160,000</u>	<u>760,000</u>	<u>763,900</u>	<u>3,900</u>
Net Change in Fund Balance	(874,449)	(296,120)	7,971	304,091
Fund Balance - Beginning of year	<u>3,520,556</u>	<u>3,520,556</u>	<u>3,520,556</u>	<u>-</u>
Fund Balance - End of year	<u><u>\$ 2,646,107</u></u>	<u><u>\$ 3,224,436</u></u>	<u><u>\$ 3,528,527</u></u>	<u><u>\$ 304,091</u></u>

The Township's internal service funds are used to account for the financing of goods and services provided by one department to other departments of the Township on a cost-reimbursement basis.

Motor Pool Fund

This fund has been established to account for costs associated with vehicles purchased by the Township and used by all departments within the Township.

Fire Unemployment Costs

This fund has been established to account for grant reimbursements received for unemployment insurance expenses that are expected to be incurred in a future period.

Charter Township of Waterford

Other Supplemental Information Combining Statement of Net Position Internal Service Funds

December 31, 2018

	Motor Pool Fund	Fire Unemployment Costs	Total
Assets			
Current assets:			
Cash and investments	\$ 342,299	\$ 259,967	\$ 602,266
Inventory	77,567	-	77,567
Total current assets	419,866	259,967	679,833
Noncurrent assets - Capital assets - Assets subject to depreciation - Net			
	772,329	-	772,329
Total assets	1,192,195	259,967	1,452,162
Liabilities			
Current liabilities:			
Accounts payable	3,126	-	3,126
Accrued liabilities and other	3,965	-	3,965
Current portion of long-term debt	174,482	-	174,482
Total current liabilities	181,573	-	181,573
Noncurrent liabilities:			
Accrued unemployment	-	259,967	259,967
Long-term debt	177,813	-	177,813
Total noncurrent liabilities	177,813	259,967	437,780
Total liabilities	359,386	259,967	619,353
Net Position			
Net investment in capital assets	420,034	-	420,034
Unrestricted	412,775	-	412,775
Total net position	\$ 832,809	\$ -	\$ 832,809

Charter Township of Waterford

Other Supplemental Information Combining Statement of Revenue, Expenses, and Changes in Net Position Internal Service Funds

Year Ended December 31, 2018

	Motor Pool Fund	Fire Unemployment Costs	Total
Operating Revenue			
Charges for services	\$ 224,073	\$ -	\$ 224,073
Operating grants	-	123,398	123,398
Total operating revenue	224,073	123,398	347,471
Operating Expenses			
Billing and administrative costs	15,720	-	15,720
Unemployment costs	-	124,175	124,175
Depreciation	138,848	-	138,848
Total operating expenses	154,568	124,175	278,743
Operating Income (Loss)	69,505	(777)	68,728
Nonoperating Revenue (Expense)			
Investment income	4,632	1,050	5,682
Interest expense	(8,064)	-	(8,064)
Gain on sale of assets	9,225	-	9,225
Total nonoperating revenue (expense)	5,793	1,050	6,843
Change in Net Position	75,298	273	75,571
Net Position - Beginning of year	757,511	(273)	757,238
Net Position - End of year	<u>\$ 832,809</u>	<u>\$ -</u>	<u>\$ 832,809</u>

Charter Township of Waterford

Other Supplemental Information Combining Statement of Cash Flows Internal Service Funds

Year Ended December 31, 2018

	Motor Pool Fund	Fire Unemployment Costs	Total
Cash Flows from Operating Activities			
Receipts from customers	\$ 224,073	\$ -	\$ 224,073
Payments to suppliers	(35,059)	-	(35,059)
Operating grants	-	123,398	123,398
Net cash and cash equivalents provided by operating activities	189,014	123,398	312,412
Cash Flows from Capital and Related Financing Activities			
Proceeds from sale of capital assets	9,225	-	9,225
Purchase of capital assets	(10,365)	-	(10,365)
Principal and interest paid on capital debt	(181,206)	-	(181,206)
Net cash and cash equivalents used in capital and related financing activities	(182,346)	-	(182,346)
Cash Flows Provided by Investing Activities - Interest received on investments	4,632	1,050	5,682
Net Increase in Cash and Cash Equivalents	11,300	124,448	135,748
Cash and Cash Equivalents - Beginning of year	330,999	135,519	466,518
Cash and Cash Equivalents - End of year	\$ 342,299	\$ 259,967	\$ 602,266
Reconciliation of Operating Income (Loss) to Net Cash from Operating Activities			
Operating income (loss)	\$ 69,505	\$ (777)	\$ 68,728
Adjustments to reconcile operating income (loss) to net cash from operating activities:			
Depreciation	138,848	-	138,848
Changes in assets and liabilities:			
Inventories	3,099	-	3,099
Accounts payable	(22,438)	-	(22,438)
Estimated claims liability	-	124,175	124,175
Net cash and cash equivalents provided by operating activities	\$ 189,014	\$ 123,398	\$ 312,412

Trust funds are used to account for assets held by the government in a trustee capacity. Agency funds are used to account for assets held by the government as an agent for individuals, private organizations, other governments, and/or other funds.

Agency Funds

These funds account for the deposit of monies held by the township government in a trustee capacity or as an agent for individuals, private organizations, other governments, and/or other funds.

Pension and Other Postemployment Trust Funds

The Township operates two retirement systems and one retiree healthcare fund, which are accounted for in three separate funds. These funds include the General Employees' Pension Fund, covering all full-time regular employees (excluding sworn police and fire employees); the Police and Fire Pension Fund; which covers sworn police and fire employees, and the Other Postemployment Benefit Trust Fund, which covers all full-time employees upon retirement or individuals receiving system disability pensions, in accordance with various labor contracts.

Charter Township of Waterford

Other Supplemental Information Combining Statement of Fiduciary Net Position Fiduciary Funds

December 31, 2018

	Pension and OPEB Funds			Total
	Police and Fire Pension	General Employees' Pension	Other Postemployment Benefits	
Assets				
Cash and cash equivalents	\$ 310,176	\$ 406,806	\$ 941,455	\$ 1,658,437
Investments:				
Fixed-income funds	-	14,713,019	2,026,435	16,739,454
Publicly traded partnerships	10,879,605	1,363,737	498,184	12,741,526
Stocks	27,395,401	32,132,503	10,591,958	70,119,862
Mutual funds	39,208,859	5,284,935	-	44,493,794
Real estate investment trusts	5,457,721	3,599,903	-	9,057,624
Pension manager short-term funds	3,641,220	1,495,904	-	5,137,124
Securities lending short-term collateral bank investment pool - Mutual funds	-	880,299	-	880,299
Prepaid items	548,003	317,295	-	865,298
Due from broker	601,066	-	-	601,066
Accrued income	44,986	18,784	-	63,770
Total assets	88,087,037	60,213,185	14,058,032	162,358,254
Liabilities				
Accounts payable	728,505	43,500	-	772,005
Obligations under securities lending agreements	-	923,799	-	923,799
Total liabilities	728,505	967,299	-	1,695,804
Net Position Held in Trust for Pension and Other Postemployment Benefits	\$ 87,358,532	\$ 59,245,886	\$ 14,058,032	\$ 160,662,450

Charter Township of Waterford

Other Supplemental Information Combining Statement of Changes in Fiduciary Net Position Fiduciary Funds

Year Ended December 31, 2018

	Pension and OPEB Funds			Total
	Police and Fire Pension	General Employees' Pension	Other Postemployment Benefits	
Additions				
Investment income (loss):				
Interest and dividends	\$ 1,905,897	\$ 743,048	\$ 2,481,136	\$ 5,130,081
Net decrease in fair value of investments	(7,389,575)	(3,557,179)	(3,415,995)	(14,362,749)
Net investment loss	(5,483,678)	(2,814,131)	(934,859)	(9,232,668)
Contributions:				
Employer contributions	2,851,743	674,987	7,011,665	10,538,395
Employee contributions	359,818	11,627	54,245	425,690
Total contributions	3,211,561	686,614	7,065,910	10,964,085
Total additions	(2,272,117)	(2,127,517)	6,131,051	1,731,417
Deductions				
Benefit payments	7,289,655	3,746,991	5,753,465	16,790,111
Administrative expenses	561,214	416,490	49,049	1,026,753
Total deductions	7,850,869	4,163,481	5,802,514	17,816,864
Net (Decrease) Increase in Net Position Held in Trust	(10,122,986)	(6,290,998)	328,537	(16,085,447)
Net Position Held in Trust for Pension and Other Employee Benefits - Beginning of year	97,481,518	65,536,884	13,729,495	176,747,897
Net Position Held in Trust for Pension and Other Employee Benefits - End of year	\$ 87,358,532	\$ 59,245,886	\$ 14,058,032	\$ 160,662,450

Charter Township of Waterford

Other Supplemental Information Schedule of Changes in Assets and Liabilities Fiduciary Funds

Year Ended December 31, 2018

	Tax Collections			December 31, 2018
	January 1, 2018	Additions	Deductions	
Assets - Cash and cash equivalents	\$ 2,142,908	\$ 145,132,181	\$ (145,646,131)	\$ 1,628,958
Liabilities				
Due to other governmental units	\$ 2,052,002	\$ 3,614,312	\$ (4,109,772)	\$ 1,556,542
Accrued liabilities and other	90,906	163,320	(181,810)	72,416
Total liabilities	\$ 2,142,908	\$ 3,777,632	\$ (4,291,582)	\$ 1,628,958
	Other Agency Funds			December 31, 2018
	January 1, 2018	Additions	Deductions	
Assets - Cash and cash equivalents	\$ 705,791	\$ 3,887,537	\$ (3,525,119)	\$ 1,068,209
Liabilities				
Bonds and other deposits	\$ 695,763	\$ 1,290,988	\$ (938,385)	\$ 1,048,366
Accrued liabilities and other	10,028	2,703,562	(2,693,747)	19,843
Total liabilities	\$ 705,791	\$ 3,994,550	\$ (3,632,132)	\$ 1,068,209
	Total Agency Funds			December 31, 2018
	January 1, 2018	Additions	Deductions	
Assets - Cash and cash equivalents	\$ 2,848,699	\$ 149,019,718	\$ (149,171,250)	\$ 2,697,167
Liabilities				
Due to other governmental units	\$ 2,052,002	\$ 3,614,312	\$ (4,109,772)	\$ 1,556,542
Bonds and other deposits	695,763	1,290,988	(938,385)	1,048,366
Accrued liabilities and other	100,934	2,866,882	(2,875,557)	92,259
Total liabilities	\$ 2,848,699	\$ 7,772,182	\$ (7,923,714)	\$ 2,697,167

Charter Township of Waterford

Other Supplemental Information
Component Unit - Veterans Memorial Fund
Fund-based Balance Sheet

December 31, 2018

	Modified Accrual	Full Accrual Adjustments	Full Accrual
Assets			
Cash and investments	\$ 5,298	\$ -	\$ 5,298
Capital assets subject to depreciation	-	55,211	55,211
Total assets	\$ 5,298	55,211	60,509
Liabilities			
	\$ 149	-	149
Fund Balance - Restricted	5,149	(5,149)	-
Total liabilities and fund balance	\$ 5,298		
Net Position			
Net investment in capital assets		55,211	55,211
Restricted - Veterans' Memorial		5,149	5,149
Total net position		\$ 60,360	\$ 60,360

Charter Township of Waterford

**Other Supplemental Information
Component Unit - Veterans Memorial Fund
Fund-based Schedule of Revenue and Expenditures**

Year Ended December 31, 2018

	<u>Modified Accrual</u>	<u>Full Accrual Adjustments</u>	<u>Full Accrual</u>
Revenue - Charges for services	\$ 1,005	\$ -	\$ 1,005
Expenditures			
General government	628	-	628
Depreciation	-	2,180	2,180
Total expenditures	<u>628</u>	<u>2,180</u>	<u>2,808</u>
Net Change in Fund Balance/Net Position	377	(2,180)	(1,803)
Fund Balance/Net Position - Beginning of year	<u>4,772</u>	<u>57,391</u>	<u>62,163</u>
Fund Balance/Net Position - End of year	<u><u>\$ 5,149</u></u>	<u><u>\$ 55,211</u></u>	<u><u>\$ 60,360</u></u>

Statistical Section

This part of the Township's Comprehensive Annual Financial Report presents detailed information to assist in understanding what information in the financial statements, note disclosures, and required supplemental information says about the overall financial condition of the Charter Township of Waterford.

1. Financial Trend Information

These schedules contain certain trend information to help the reader understand how the Township's financial position and performance have changed over time.

2. Revenue Capacity Information

These schedules contain information to help the reader assess the factors affecting the Township's ability to generate its main income source - property taxes.

3. Debt Capacity Information

These schedules present information to help the reader assess the affordability of the Township's current level of outstanding debt and the ability to issue additional debt in the future.

4. Demographic and Economic Information

These schedules present various demographic and economic indicators for the reader to understand the environment within the Township that affects the Township's financial statements.

5. Operating Information

These schedules contain information about the Township's operations and resources to help the reader understand how the Township's financial information relates to the services the Township provides and the activities it performs.

Charter Township of Waterford

	As of December 31,			
	2009	2010	2011	2012
Governmental Activities				
Net investment in capital assets	\$ 44,754,072	\$ 44,944,850	\$ 45,135,692	\$ 47,298,593
Restricted	4,721,937	5,141,594	5,370,788	5,262,167
Unrestricted	<u>1,800,600</u>	<u>(2,877,686)</u>	<u>(6,048,239)</u>	<u>(9,709,009)</u>
Total net position	<u>\$ 51,276,609</u>	<u>\$ 47,208,758</u>	<u>\$ 44,458,241</u>	<u>\$ 42,851,751</u>
Business-type Activities				
Net investment in capital assets	\$ 71,654,120	\$ 73,463,981	\$ 71,947,707	\$ 71,328,214
Restricted	1,448,307	1,916,264	2,206,903	2,084,405
Unrestricted	<u>13,946,883</u>	<u>13,185,990</u>	<u>13,185,783</u>	<u>14,110,363</u>
Total net position	<u>\$ 87,049,310</u>	<u>\$ 88,566,235</u>	<u>\$ 87,340,393</u>	<u>\$ 87,522,982</u>
Primary Government in Total				
Net investment in capital assets	\$ 116,408,192	\$ 118,408,831	\$ 117,083,399	\$ 118,626,807
Restricted	6,170,244	7,057,858	7,577,691	7,346,572
Unrestricted	<u>15,747,483</u>	<u>10,308,304</u>	<u>7,137,544</u>	<u>4,401,354</u>
Total net position	<u>\$ 138,325,919</u>	<u>\$ 135,774,993</u>	<u>\$ 131,798,634</u>	<u>\$ 130,374,733</u>

Source: Township's annual financial statements

* The Township implemented GASB No. 68 in 2015. The numbers in this table have not been updated retrospectively.

** The Township implemented GASB No. 75 in 2018. The numbers in this table have not been updated retrospectively.

Net Position by Component

Last Ten Fiscal Years

(Unaudited)

As of December 31,					
2013	2014	2015*	2016	2017	2018**
\$ 46,738,188	\$ 46,799,756	\$ 47,424,323	\$ 47,755,197	\$ 49,917,271	\$ 51,276,047
5,058,980	5,299,562	5,512,742	5,573,050	5,006,923	5,027,552
(12,613,301)	(14,614,667)	(35,750,457)	(40,613,351)	(43,621,655)	(132,654,683)
\$ 39,183,867	\$ 37,484,651	\$ 17,186,608	\$ 12,714,896	\$ 11,302,539	\$ (76,351,084)
\$ 74,702,495	\$ 76,598,026	\$ 75,365,037	\$ 76,149,383	\$ 77,300,259	\$ 78,449,817
2,150,295	813,588	2,998,522	1,098,158	2,342,415	1,572,136
14,968,603	14,544,118	13,754,631	15,948,494	15,485,980	3,544,020
\$ 91,821,393	\$ 91,955,732	\$ 92,118,190	\$ 93,196,035	\$ 95,128,654	\$ 83,565,973
\$ 121,440,683	\$ 123,397,782	\$ 122,789,360	\$ 123,904,580	\$ 127,217,530	\$ 129,725,864
7,209,275	6,113,150	8,511,264	6,671,208	7,349,338	6,599,688
2,355,302	(70,549)	(21,995,826)	(24,664,857)	(28,135,675)	(129,110,663)
\$ 131,005,260	\$ 129,440,383	\$ 109,304,798	\$ 105,910,931	\$ 106,431,193	\$ 7,214,889

Charter Township of Waterford

	As of December 31,			
	2009	2010	2011	2012
Expenses				
General government	\$ 7,255,074	\$ 6,997,818	\$ 6,705,725	\$ 6,941,413
District Court	2,948,594	2,833,152	2,419,633	2,252,893
Police and fire	28,665,369	27,946,504	24,652,327	29,836,433
Building inspection	1,488,139	1,392,747	1,240,541	1,499,568
Public works activities	674,698	931,781	746,742	831,566
Community and economic development	3,095,731	2,705,335	2,188,419	1,662,882
Recreation and culture	5,868,354	5,571,380	4,897,241	4,138,458
Interest on long-term debt	802,289	277,941	302,836	284,155
Total expenses	50,798,248	48,656,658	43,153,464	47,447,368
Program Revenue				
Charges for services:				
General government	3,537,865	3,095,082	2,130,007	2,730,919
District Court	1,795,195	1,480,037	1,302,460	1,175,963
Police and fire	1,426,080	2,058,194	2,026,482	7,580,204
Building inspection	376,323	482,410	346,073	344,960
Community and economic development	396,331	112,540	79,046	93,411
Recreation and culture	1,174,611	1,221,313	1,268,767	1,289,312
Other activities	470,264	508,384	575,408	575,165
Total charges for services	9,176,669	8,957,960	7,728,243	13,789,934
Operating grants and contributions	2,007,831	2,149,749	1,785,418	992,965
Capital grants and contributions	-	285,650	-	896,439
Total program revenue	11,184,500	11,393,359	9,513,661	15,679,338
Excess of Expenses Over Program Revenue	(39,613,748)	(37,263,299)	(33,639,803)	(31,768,030)
General Revenue				
Property taxes	27,751,648	27,303,992	24,615,307	21,598,342
State-shared revenue	5,237,324	4,983,146	5,146,592	5,502,059
Unrestricted investment earnings	209,413	150,336	125,441	96,075
Franchise fees	72,587	88,087	929,916	978,271
Miscellaneous	194,814	284,228	72,030	237,360
Transfers	-	-	-	-
Total general revenue	33,465,786	32,809,789	30,889,286	28,412,107
Special Items - Contribution of public safety assets	-	-	-	1,749,433
Change in Net Position	\$ (6,147,962)	\$ (4,453,510)	\$ (2,750,517)	\$ (1,606,490)

Source: Township's annual financial statements

Changes in Governmental Net Position

Last Ten Fiscal Years

(Unaudited)

As of December 31,						
2013	2014	2015	2016	2017	2018	
\$ 7,540,276	\$ 7,371,411	\$ 8,468,129	\$ 10,008,883	\$ 9,566,130	\$ 5,361,318	
2,292,718	2,382,795	2,023,796	2,060,646	1,950,465	2,772,032	
32,017,761	32,860,164	33,814,996	32,607,963	31,148,383	38,386,451	
1,081,438	1,091,307	1,137,157	1,128,343	1,299,693	1,273,845	
507,388	378,338	341,865	447,811	644,788	818,722	
1,326,708	1,407,689	1,365,836	1,436,840	1,237,013	1,763,727	
4,426,465	4,172,091	4,106,423	4,235,473	4,457,445	5,146,552	
217,799	194,547	170,170	144,707	142,935	82,835	
49,410,553	49,858,342	51,428,372	52,070,666	50,446,852	55,605,482	
2,807,268	2,642,128	1,832,510	1,952,187	737,664	754,514	
1,350,596	1,282,052	1,037,257	1,072,440	1,089,797	1,114,223	
8,447,612	8,567,130	8,366,943	8,486,146	9,074,822	9,436,126	
444,680	636,514	594,148	667,341	703,837	1,142,404	
89,110	131,987	131,393	119,145	372,302	367,586	
1,353,572	1,311,791	1,368,111	1,345,423	1,127,118	1,145,407	
93,480	592,061	544,191	534,973	55,708	54,745	
14,586,318	15,163,663	13,874,553	14,177,655	13,161,248	14,015,005	
2,861,831	4,515,109	4,841,171	2,652,932	4,241,920	4,678,239	
18,657	117,289	38	32,731	5,000	10,940	
17,466,806	19,796,061	18,715,762	16,863,318	17,408,168	18,704,184	
(31,943,747)	(30,062,281)	(32,712,610)	(35,207,348)	(33,038,684)	(36,901,298)	
21,072,941	21,006,495	22,021,348	22,553,997	22,825,673	23,246,943	
5,664,103	5,784,757	5,764,563	5,913,916	6,403,176	6,603,644	
145,472	237,100	176,563	194,776	262,207	422,183	
1,142,999	1,193,645	1,250,899	1,243,092	1,210,578	1,141,743	
250,348	141,068	491,375	829,855	924,693	633,459	
-	-	-	-	-	-	
28,275,863	28,363,065	29,704,748	30,735,636	31,626,327	32,047,972	
-	-	-	-	-	-	
\$ (3,667,884)	\$ (1,699,216)	\$ (3,007,862)	\$ (4,471,712)	\$ (1,412,357)	\$ (4,853,326)	

Charter Township of Waterford

	As of December 31,			
	2009	2010	2011	2012
Operating Revenue				
Water usage billings	\$ 4,271,239	\$ 5,178,302	\$ 5,092,940	\$ 5,411,677
Sewage disposal charges	10,589,084	10,835,754	11,588,492	12,824,921
Other sales to customers	15,400	22,561	25,940	28,365
Charges for services	135,092	262,589	253,699	253,335
Operating grants	33,336	49,046	19,414	373,980
Total operating revenue	15,044,151	16,348,252	16,980,485	18,892,278
Operating Expenses				
Cost of water	2,073,815	1,750,817	1,667,552	1,671,016
Cost of sewage disposal	5,798,600	6,543,296	7,010,894	7,343,946
Operation and maintenance costs	991,427	943,623	708,744	548,469
Billing and administrative costs	5,702,312	4,485,462	5,272,625	5,270,602
Depreciation	3,910,157	3,459,145	3,438,847	3,686,911
Other services and charges	-	-	-	-
Total operating expenses	18,476,311	17,182,343	18,098,662	18,520,944
Operating (Loss) Income	(3,432,160)	(834,091)	(1,118,177)	371,334
Nonoperating Revenue (Expenses)				
Gain (loss) on sale of assets	-	-	9,405	-
Operating grants	-	-	-	-
Investment income	292,311	252,947	153,224	66,050
Interest expense	(381,215)	(394,572)	(379,396)	(351,397)
Total nonoperating (expense) revenue	(88,904)	(141,625)	(216,767)	(285,347)
(Loss) Income - Before contributions	(3,521,064)	(975,716)	(1,334,944)	85,987
Transfers In - Net	-	-	-	-
Capital Contributions	235,824	2,492,641	109,103	96,601
Change in Net Position	(3,285,240)	1,516,925	(1,225,841)	182,588
Change in Primary Government Net Position				
Change in governmental net position	(6,147,962)	(4,453,510)	(2,750,517)	(1,606,490)
Change in business-type net position	(3,285,240)	1,516,925	(1,225,841)	182,588
Total change in primary government net position	<u>\$ (9,433,202)</u>	<u>\$ (2,936,585)</u>	<u>\$ (3,976,358)</u>	<u>\$ (1,423,902)</u>

Source: Township's annual financial statements

Changes in Business-type Net Position

Last Ten Fiscal Years

(Unaudited)

As of December 31,						
2013	2014	2015	2016	2017	2018	
\$ 4,680,162	\$ 4,916,805	\$ 5,767,266	\$ 6,012,824	\$ 5,793,618	\$ 5,818,649	
14,273,975	15,211,866	15,606,349	16,506,995	16,673,937	17,205,120	
33,323	24,770	32,237	24,730	39,044	42,682	
263,518	288,726	262,479	466,141	500,839	434,160	
36,976	10,536	-	-	-	348,335	
<u>19,287,954</u>	<u>20,452,703</u>	<u>21,668,331</u>	<u>23,010,690</u>	<u>23,007,438</u>	<u>23,848,946</u>	
1,640,029	1,658,724	1,600,899	1,690,175	1,721,613	1,710,431	
8,294,563	9,005,056	9,259,783	9,166,971	9,677,724	9,980,975	
578,010	730,739	727,738	799,509	896,008	1,041,300	
5,461,724	5,525,326	5,677,345	5,847,148	5,057,079	4,795,245	
3,682,610	3,586,054	4,022,724	4,138,057	5,062,949	5,286,323	
-	-	-	-	-	-	
<u>19,656,936</u>	<u>20,505,899</u>	<u>21,288,489</u>	<u>21,641,860</u>	<u>22,415,373</u>	<u>22,814,274</u>	
(368,982)	(53,196)	379,842	1,368,830	592,065	1,034,672	
12,304	11,960	-	(95,143)	101,451	12,012	
-	-	-	-	469,295	-	
110,795	135,605	114,119	107,899	146,368	314,230	
<u>(441,360)</u>	<u>(379,690)</u>	<u>(576,350)</u>	<u>(522,830)</u>	<u>(508,114)</u>	<u>(725,060)</u>	
<u>(318,261)</u>	<u>(232,125)</u>	<u>(462,231)</u>	<u>(510,074)</u>	<u>209,000</u>	<u>(398,818)</u>	
(687,243)	(285,321)	(82,389)	858,756	801,065	635,854	
-	-	-	-	-	-	
4,985,654	419,660	750,175	219,089	1,131,554	902,428	
<u>4,298,411</u>	<u>134,339</u>	<u>667,786</u>	<u>1,077,845</u>	<u>1,932,619</u>	<u>1,538,282</u>	
(3,667,884)	(1,699,216)	(3,007,862)	(4,471,712)	(1,412,357)	(4,853,326)	
<u>4,298,411</u>	<u>134,339</u>	<u>667,786</u>	<u>1,077,845</u>	<u>1,932,619</u>	<u>1,538,282</u>	
<u>\$ 630,527</u>	<u>\$ (1,564,877)</u>	<u>\$ (2,340,076)</u>	<u>\$ (3,393,867)</u>	<u>\$ 520,262</u>	<u>\$ (3,315,044)</u>	

Charter Township of Waterford

	As of December 31,			
	2009	2010	2011	2012
General Fund				
Reserved	\$ -	\$ 131,037	\$ -	\$ -
Unreserved	2,254,966	1,481,735	-	-
Nonspendable	-	-	41,258	40,404
Committed	-	-	-	-
Assigned	-	-	1,703,984	793,124
Unassigned	-	-	792,173	1,872,425
Total general fund	2,254,966	1,612,772	2,537,415	2,705,953
All Other Governmental Funds				
Reserved	738,941	954,024	-	-
Unreserved reported in:				
Special revenue funds	7,084,171	6,877,134	-	-
Capital project funds	79,198	86,883	-	-
Debt service funds	73,179	331,124	-	-
Nonspendable	-	-	6,915	3,466
Restricted	-	-	3,937,880	3,870,100
Committed	-	-	-	-
Assigned	-	-	4,606,791	4,942,477
Total General Fund and all other governmental funds	\$ 10,230,455	\$ 9,861,937	\$ 11,089,001	\$ 11,521,996

Note: In 2011, the Township adopted GASB Statement No. 54, which changed fund balance classifications.

Source: Township's annual financial statements

Fund Balances - Governmental Funds

**Last Ten Fiscal Years
(Unaudited)**

As of December 31,						
2013	2014	2015	2016	2017	2018	
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
-	-	-	-	-	-	
41,130	102,118	176,681	96,798	192,148	68,596	
1,453,123	1,820,048	2,125,140	2,551,284	2,745,602	3,070,045	
-	-	-	64,373	534,566	-	
2,892,642	4,412,750	5,804,705	7,254,216	6,154,494	7,607,096	
4,386,895	6,334,916	8,106,526	9,966,671	9,626,810	10,745,737	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
29,782	7	271,341	2,668	276,216	3	
3,610,425	3,870,972	4,029,098	4,018,863	3,812,681	3,901,915	
-	-	145,000	441,499	591,235	1,054,391	
5,757,190	6,890,698	7,820,864	9,348,667	10,165,176	11,232,977	
\$ 13,784,292	\$ 17,096,593	\$ 20,372,829	\$ 23,778,368	\$ 24,472,118	\$ 26,935,023	

Charter Township of Waterford

	As of December 31,			
	2009	2010	2011	2012
Revenue				
Property taxes	\$ 27,816,321	\$ 27,487,340	\$ 24,217,983	\$ 21,220,749
Intergovernmental revenue	7,660,834	7,177,942	7,090,287	7,213,657
Licenses and permits	1,164,144	1,366,130	300,769	364,258
Fines and forfeitures	2,120,660	1,792,007	1,586,332	1,411,839
Charges for services	2,900,239	3,715,399	3,894,382	9,606,043
Special assessments	748,705	808,083	858,299	864,927
Interest and miscellaneous	1,490,876	1,790,264	1,825,496	2,824,124
Total revenue	43,901,779	44,137,165	39,773,548	43,505,597
Expenditures				
Current:				
General government and district court	8,277,219	9,070,564	8,470,321	7,615,207
Public safety	26,409,209	26,270,382	22,620,407	27,782,168
Community and economic development	2,919,236	2,117,054	1,249,546	1,671,165
Recreation and culture	4,858,451	4,722,679	4,138,183	3,412,416
Miscellaneous	43,954	269,934	142,218	36,378
Capital outlay	1,055,415	808,788	648,183	1,258,568
Debt administration:				
Principal	856,452	904,749	990,000	1,040,000
Interest	781,663	341,533	287,626	275,864
Total expenditures	45,201,599	44,505,683	38,546,484	43,091,766
Excess of Revenue (Under) Over Expenditures	(1,299,820)	(368,518)	1,227,064	413,831
Other Financing Sources (Uses)				
Face value of debt issue	-	-	-	957,919
Debt premium	-	-	-	27,722
Proceeds from sale of capital assets	-	-	-	-
Transfers in	8,500,000	8,500,000	7,450,000	7,550,000
Transfers out	(8,500,000)	(8,500,000)	(7,450,000)	(7,550,000)
Payment to bond refunding escrow agent	-	-	-	(966,477)
Total other financing sources	-	-	-	19,164
Net Change in Fund Balances	(1,299,820)	(368,518)	1,227,064	432,995
Fund Balances - Beginning of year	11,530,275	10,230,455	9,861,937	11,089,001
Fund Balances - End of year	\$ 10,230,455	\$ 9,861,937	\$ 11,089,001	\$ 11,521,996
Debt service as a percentage of noncapital expenditures	3.71%	2.85%	3.37%	3.15%

Source: Township's annual financial statements

Changes in Fund Balances - Governmental Funds

Last Ten Fiscal Years
(Unaudited)

As of December 31,						
2013	2014	2015	2016	2017	2018	
\$ 20,688,982	\$ 20,932,159	\$ 22,039,689	\$ 22,528,159	\$ 22,828,163	\$ 23,242,014	
8,508,876	10,670,673	9,711,390	8,685,835	10,706,072	11,033,711	
485,610	657,977	612,176	696,992	723,426	1,226,493	
1,588,776	1,544,005	1,507,749	1,501,791	1,576,247	1,576,665	
10,411,618	10,636,717	10,749,411	10,847,802	11,226,029	11,490,680	
927,510	830,284	855,076	837,264	328,236	322,266	
2,989,638	2,720,465	2,907,439	3,052,781	3,578,267	3,210,417	
<u>45,601,010</u>	<u>47,992,280</u>	<u>48,382,930</u>	<u>48,150,624</u>	<u>50,966,440</u>	<u>52,102,246</u>	
7,534,310	7,349,954	7,185,480	7,796,775	9,019,979	7,898,940	
28,800,415	29,953,841	29,746,712	29,410,301	32,110,975	32,779,431	
1,336,629	1,358,975	1,300,250	1,357,980	1,273,026	1,475,980	
3,615,923	3,426,284	3,593,989	3,618,730	3,798,000	3,793,252	
43,925	68,175	-	-	53,953	179,578	
684,405	1,148,223	1,893,200	1,372,641	2,601,873	1,732,409	
1,095,000	1,175,000	1,232,932	1,344,032	1,404,429	1,710,008	
228,107	199,527	164,731	127,970	149,663	83,210	
<u>43,338,714</u>	<u>44,679,979</u>	<u>45,117,294</u>	<u>45,028,429</u>	<u>50,411,898</u>	<u>49,652,808</u>	
2,262,296	3,312,301	3,265,636	3,122,195	554,542	2,449,438	
-	-	-	276,699	-	-	
-	-	-	-	-	-	
-	-	10,600	6,645	139,208	13,467	
7,605,000	7,345,000	8,267,500	9,007,500	10,067,500	9,202,500	
(7,605,000)	(7,345,000)	(8,267,500)	(9,007,500)	(10,067,500)	(9,202,500)	
<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	
<u>-</u>	<u>-</u>	<u>10,600</u>	<u>283,344</u>	<u>139,208</u>	<u>13,467</u>	
2,262,296	3,312,301	3,276,236	3,405,539	693,750	2,462,905	
<u>11,521,996</u>	<u>13,784,292</u>	<u>17,096,593</u>	<u>20,372,829</u>	<u>23,778,368</u>	<u>24,472,118</u>	
\$ 13,784,292	\$ 17,096,593	\$ 20,372,829	\$ 23,778,368	\$ 24,472,118	\$ 26,935,023	
3.10%	3.16%	3.23%	3.37%	3.25%	3.74%	

General Governmental Revenue History

Last Ten Fiscal Years
(Unaudited)

Fiscal Year	General Property Taxes	Intergovernmental Revenue	Special Assessments	Licenses and Permits	Fines and Fees	Charges for Services	Interest and Miscellaneous	Total Revenue
2009	\$ 27,816,321	\$ 7,660,834	\$ 748,705	\$ 1,164,144	\$ 2,120,660	\$ 2,900,239	\$ 1,490,876	\$ 43,901,779
2010	27,487,340	7,177,942	808,083	1,366,130	1,792,007	3,715,399	1,790,264	44,137,165
2011	24,217,983	7,090,287	858,299	300,769	1,586,332	3,894,382	1,825,496	39,773,548
2012	21,220,749	7,213,657	864,927	364,258	1,411,839	9,606,043	2,824,124	43,505,597
2013	20,688,982	8,508,876	927,510	485,610	1,588,776	10,411,618	2,989,638	45,601,010
2014	20,932,159	10,670,673	830,284	657,977	1,544,005	10,636,717	2,720,465	47,992,280
2015	22,039,689	9,711,390	855,076	612,176	1,507,749	10,749,411	2,907,439	48,382,930
2016	22,528,159	8,685,835	837,264	696,992	1,501,791	10,847,802	3,052,781	48,150,624
2017	22,828,163	10,706,072	328,236	723,426	1,576,247	11,226,029	3,578,267	50,966,440
2018	23,242,014	11,033,711	322,266	1,226,493	1,576,665	11,490,680	3,210,417	52,102,246

Note: Includes all governmental-type funds
Source: Township annual financial statements

General Governmental Expenditure History

Last Ten Fiscal Years
(Unaudited)

Fiscal Year	General Government	Public Safety	Community and Economic Development	Recreation and Culture	Capital Outlay	Debt Admin	Miscellaneous	Total Expenditures
2009	\$ 8,277,219	\$ 26,409,209	\$ 2,919,236	\$ 4,858,451	\$ 1,055,415	\$ 1,638,115	\$ 43,954	\$ 45,201,599
2010	9,070,564	26,270,382	2,117,054	4,722,679	808,788	1,246,282	269,934	44,505,683
2011	8,470,321	22,620,407	1,249,546	4,138,183	648,183	1,277,626	142,218	38,546,484
2012	7,615,207	27,782,168	1,671,165	3,412,416	1,258,568	1,315,864	36,378	43,091,766
2013	7,534,310	28,800,415	1,336,629	3,615,923	684,405	1,323,107	43,925	43,338,714
2014	7,349,954	29,953,841	1,358,975	3,426,284	1,148,223	1,374,527	68,175	44,679,979
2015	7,185,480	29,746,712	1,300,250	3,593,989	1,893,200	1,397,663	-	45,117,294
2016	7,796,775	29,410,301	1,357,980	3,618,730	1,372,641	1,472,002	-	45,028,429
2017	9,019,979	32,110,975	1,273,026	3,798,000	2,601,873	1,554,092	53,953	50,411,898
2018	7,898,940	32,779,431	1,475,980	3,793,252	1,732,409	1,793,218	179,578	49,652,808

Note: Includes all governmental fund types under modified accrual accounting
Source: Township annual financial statements

Charter Township of Waterford

General Fund Balance Compared to Annual Expenditures

**Last Ten Fiscal Years
(Unaudited)**

Fiscal Year	Nonspendable Fund Balance	Reserved/ Restricted Fund Balance	Unreserved/ Unrestricted Fund Balance	Annual Expenditures and Transfers	Unreserved/Unrestricted Fund Balance as a Percentage of Expenditures
2009	\$ -	\$ -	\$ 2,254,966	\$ 21,696,984	10.39%
2010	-	131,037	1,481,735	21,719,846	6.82%
2011	41,258	-	2,496,157	19,315,121	12.92%
2012	40,404	-	2,665,549	19,182,967	13.90%
2013	41,130	-	4,345,765	18,383,291	23.64%
2014	102,118	-	6,232,798	17,981,655	34.66%
2015	176,681	-	7,929,845	17,484,283	45.35%
2016	96,798	-	9,805,500	18,694,328	52.45%
2017	192,148	-	9,434,662	20,198,298	46.71%
2018	68,596	-	10,677,141	19,433,985	54.94%

Note: In 2011, the Township adopted GASB Statement No. 54, which changed fund balance classifications from reserved and unreserved to nonspendable, restricted, and unrestricted.

Source: Township annual financial statements

Charter Township of Waterford

Taxable Value by Property Type (1)

Real Property					
Tax Year	Residential	Commercial	Industrial	Personal Property	Total Value
2009	\$ 2,057,927,750	\$ 467,377,280	\$ 29,925,940	\$ 93,236,790	\$ 2,648,467,760
2010	1,690,296,870	445,073,830	26,411,480	98,766,690	2,260,548,870
2011	1,471,957,090	420,006,400	18,957,670	85,181,300	1,996,102,460
2012	1,435,293,452	389,745,100	18,253,200	87,173,620	1,930,465,372
2013	1,429,379,595	374,448,860	18,688,080	83,220,870	1,905,737,405
2014	1,456,683,719	358,646,790	15,849,700	72,869,590	1,904,049,799
2015	1,498,201,930	345,433,650	26,680,740	73,377,976	1,943,694,296
2016	1,534,483,430	344,829,640	26,741,060	75,399,276	1,981,453,406
2017	1,591,768,390	346,359,740	28,031,370	77,964,300	2,044,123,800
2018	1,667,442,430	344,426,360	29,641,120	80,179,970	2,121,689,880

(1) Under Michigan law, the revenue base is taxable value. Taxes levied in a particular "tax year" become revenue of the subsequent fiscal year

Source: Township Assessing Department records

Assessed Value and Actual Value of Taxable Property

**Last Ten Years
(Unaudited)**

Tax Rate (mills)	Estimated Actual Value	Taxable Value as a Percentage of Actual
10.3900	\$ 5,826,266,740	45.46%
10.8896	4,713,453,340	47.96%
10.8896	4,100,734,760	48.68%
10.8896	3,948,172,000	48.90%
11.0796	3,951,590,330	48.23%
11.5800	4,114,381,038	46.28%
11.5796	4,548,921,312	42.73%
11.5064	4,998,497,592	39.64%
11.3266	5,387,595,720	37.94%
13.5791	5,601,838,470	37.87%

Direct and Overlapping Property Tax Rates

Last Ten Years
(Unaudited)

Tax Year	Millage Rates - Direct Township Taxes (1)			Overlapping Taxes					Total Tax Rate (2)	
	General Operating	Debt	Total Direct Taxes	County Combined (4)	Intermediate		School -		Principal	Nonprincipal
					Community College	School District	School - Principal (3)	Nonprincipal (3)		
2009	9.8910	0.5000	10.3910	4.7461	1.5844	3.3690	9.6700	27.6700	29.7605	47.7605
2010	10.3896	0.5000	10.8896	4.7461	1.5844	3.3690	11.2200	29.2200	31.8091	49.8091
2011	10.3896	0.5000	10.8896	4.7461	1.5844	3.3690	11.8500	29.8500	32.4391	50.4391
2012	10.3896	0.5000	10.8896	4.9461	1.5844	3.3690	11.8500	29.8500	32.6391	50.6391
2013	10.3896	0.6900	11.0796	4.9461	1.5844	3.3690	13.0000	31.0000	33.9791	51.9791
2014	10.8896	0.6900	11.5796	4.9461	1.5844	3.3690	13.0000	31.0000	34.4791	52.4791
2015	10.8896	0.6900	11.5796	4.8450	1.5819	3.3633	13.0000	31.0000	34.3698	52.3698
2016	10.8164	0.6900	11.5064	4.7909	1.5707	3.3398	13.0000	31.0000	34.2078	52.2078
2017	10.6766	0.6500	11.3266	4.7849	1.5555	3.3079	13.0000	31.0000	33.9749	51.9749
2018	13.5791	-	13.5791	4.7805	1.5431	3.2813	13.0000	31.0000	36.1840	54.1840

(1) Includes general operating, fire, police, library, and police and fire building debt taxes.

(2) Previously termed Homestead and Nonhomestead

(3) School rates are based on the Waterford School District, which services a vast majority of the Township's land area.

(4) Combined rate includes County operating, County Parks & Rec, Huron Clinton Metro Authority, Zoo Authority & Art Institute

Source: Township Assessing Department records

Principal Property Taxpayers

Current Year and Ten Years Ago
(Unaudited)

	Type of Business	Year Ended December 31, 2018			Year Ended December 31, 2009		
		Taxable Value	Percentage of Total	Rank	Taxable Value	Percentage of Total	Rank
Detroit Edison	Utility	\$ 26,449,628	1.29%	1	\$ 24,239,240	0.90%	1
Consumers Energy	Utility	8,572,180	0.42%	2	6,106,840	0.23%	10
Cass Lake Shore Club	Apartment	8,426,960	0.41%	3	9,314,060	0.34%	3
Rite Aid	Retail	6,483,300	0.32%	4	8,015,410	0.30%	6
St Luke's Episcopal Health	Senior Housing	6,408,260	0.31%	5	-	N/A	N/A
Occidental Dev./Rivers Edge	Apartment	5,953,070	0.29%	6	9,033,150	0.33%	8
Meijer	Retail	5,924,650	0.29%	7	7,701,490	0.28%	7
Comcast	Cable TV	5,505,650	0.27%	8	-	N/A	N/A
Pentastar	Airport	5,435,730	0.27%	9	-	N/A	N/A
Village Green	Apartment	4,982,460	0.24%	10	6,553,710	0.24%	8
Total		\$ 84,141,888	4.12%		\$ 70,963,900	2.62%	
Total taxable value for each year		\$ 2,044,123,800			\$ 2,706,150,524		

Source: Waterford Township Assessing Department records

Property Tax Levies and Collections

Last Ten Fiscal Years
(Unaudited)

Fiscal Year	Total Levy	Collections	Percent Collected	Delinquent Collections (Real)	Total Tax Collections	Percent of Levy Collected	Delinquent Tax Receivable
2009	\$ 27,391,906	\$ 25,350,622	92.55%	\$ 1,926,850	\$ 27,277,473	99.58%	197,208
2010	24,468,429	22,807,481	93.21%	1,630,982	24,438,464	99.88%	72,706
2011	21,541,187	20,061,285	93.13%	1,406,240	21,467,525	99.66%	72,954
2012	20,819,579	19,509,375	93.71%	1,211,043	20,720,418	99.52%	98,454
2013	20,893,494	19,663,238	94.11%	1,208,306	20,871,545	99.89%	53,801
2014	21,967,753	20,771,999	94.56%	1,163,240	21,935,239	99.85%	32,514
2015	22,423,378	21,270,467	94.86%	1,096,206	22,366,673	99.75%	55,874
2016	22,755,214	21,676,415	95.26%	1,035,653	22,712,068	99.81%	42,004
2017	23,121,178	22,070,784	95.46%	1,013,142	23,083,926	99.84%	36,247
2018	28,524,264	27,300,414	95.71%	1,187,040	28,487,455	99.87%	36,835

Source: Township Treasurer's Office records

Charter Township of Waterford

	As of December 31,			
	2009	2010	2011	2012
Governmental Activities				
General obligation bonds	\$ 12,485,000	\$ 10,995,000	\$ 9,625,000	\$ 8,337,969
Special assessment bonds	20,000	10,000	-	-
Revenue bonds	-	-	-	-
Installment purchase agreements	-	-	-	-
Notes payable	-	-	-	-
Capital leases	-	-	-	-
Total	12,505,000	11,005,000	9,625,000	8,337,969
Business-type Activities				
General obligation bonds	15,471,528	16,529,634	18,263,706	19,328,651
Special assessment bonds	-	-	-	-
Revenue bonds	-	-	-	-
Installment purchase agreements	-	-	-	-
Notes payable	-	-	-	-
Capital leases	-	-	-	-
Total	15,471,528	16,529,634	18,263,706	19,328,651
Total Debt of the Government	\$ 27,976,528	\$ 27,534,634	\$ 27,888,706	\$ 27,666,620
Total Taxable Value	\$ 2,648,467,760	\$ 2,260,548,870	\$ 1,996,102,460	\$ 1,930,465,372
Ratio of Total Debt to Taxable Value	1.06%	1.22%	1.40%	1.43%
Total Population	70,678	70,749	71,798	72,171
Total Debt per Capita	\$ 396	\$ 389	\$ 388	\$ 383
Per Capita Personal Income	\$ 28,387	\$ 28,518	\$ 29,401	\$ 26,423
Ratio of Debt to Personal Income	1.39%	1.36%	1.32%	1.45%

(1) Not available

Source: Township annual financial statements; population data reported from demographics schedule

Ratios of Outstanding Debt

Last Ten Fiscal Years

(Unaudited)

As of December 31,						
2013	2014	2015	2016	2017	2018	
\$ 7,097,969	\$ 5,922,969	\$ 4,690,037	\$ 3,378,736	\$ 1,984,066	\$ 508,273	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	672,614	691,517	523,509	352,295	
-	-	-	243,974	234,210	-	
-	-	-	-	-	-	
7,097,969	5,922,969	5,362,651	4,314,227	2,741,785	860,568	
22,968,930	32,500,078	36,033,495	34,868,462	32,719,833	32,199,070	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	61,337	58,883	-	
-	-	-	-	-	-	
22,968,930	32,500,078	36,033,495	34,929,799	32,778,716	32,199,070	
\$ 30,066,899	\$ 38,423,047	\$ 41,396,146	\$ 39,244,026	\$ 35,520,501	\$ 33,059,638	
\$ 1,905,737,405	\$ 1,904,049,799	\$ 1,943,694,296	\$ 1,981,453,406	\$ 2,044,123,800	\$ 2,121,689,880	
1.58%	2.02%	2.13%	1.98%	1.74%	1.56%	
72,645	72,181	72,503	72,756	72,863	72,948	
\$ 414	\$ 532	\$ 571	\$ 539	\$ 487	\$ 453	
\$ 26,151	\$ 28,717	\$ 28,268	\$ 31,149	\$ 29,189	\$ 33,551	
1.58%	1.85%	2.02%	1.73%	1.67%	1.35%	

Ratios of General Bonded Debt Outstanding

Last Ten Fiscal Years
(Unaudited)

Fiscal Year	General Obligation Bonds	Tax Supported Bonds (1)	Less Pledged Debt Service Funds	Net General Bonded Debt	Taxable Value	Debt as a Percentage of Taxable Value	Population	General Bonded Debt Per Capita
2009	\$ 18,441,528	\$ 9,515,000	\$ 79,879	\$ 27,876,649	\$ 2,648,467,760	1.05%	70,678	394
2010	18,779,634	8,745,000	331,124	27,193,510	2,260,548,870	1.20%	70,749	384
2011	20,003,707	7,885,000	349,877	27,538,830	1,996,102,460	1.38%	71,798	384
2012	20,696,620	6,970,000	192,496	27,474,124	1,930,465,372	1.42%	72,171	381
2013	24,061,899	6,005,000	7,665	30,059,234	1,905,737,405	1.58%	72,645	414
2014	33,458,047	4,965,000	80,092	38,342,955	1,904,049,799	2.01%	72,181	531
2015	36,883,532	3,840,000	121,224	40,602,308	1,943,694,296	2.09%	72,503	560
2016	35,607,198	2,640,000	158,920	38,088,278	1,981,453,406	1.92%	72,756	524
2017	33,343,899	1,360,000	176,212	34,527,687	2,044,123,800	1.69%	72,863	474
2018	32,707,343	-	135,636	32,571,707	2,121,689,880	1.54%	72,948	447

(1) Original bonds represented debt issued for construction of the police and fire buildings. Refunding bonds

Note: Special assessment bonds have been excluded.
Source: Township annual financial statements.

Direct and Overlapping Debt

December 31, 2018
(Unaudited)

Governmental Unit	Debt Outstanding	Estimated Percent Applicable to Waterford	Estimated Share of Overlapping Debt
Oakland County	\$ 340,816,939	3.70%	\$ 12,610,227
School districts:			
Clarkston school district	158,702,064	2.03%	3,221,652
Pontiac school district	40,213,135	2.15%	864,582
Waterford school district	143,235,000	85.61%	122,623,484
Oakland Community College	-	N/A	-
Intermediate school district	<u>44,695,000</u>	3.71%	<u>1,658,185</u>
Total overlapping debt	727,662,138		140,978,130
Direct Township debt (not including debt related to business-type activities)	<u>860,567</u>	100.00%	<u>860,568</u>
Total direct and overlapping debt	<u>\$ 728,522,705</u>		<u>\$ 141,838,698</u>

Note: The percentage of overlapping bonded debt related to each governmental unit was established using the taxable value of assessed property. Percentages were estimated by calculating the portion of each governmental unit's taxable property located within the boundaries of the Township and dividing it by the unit's total taxable value.

Source: Municipal Advisory Council of Michigan

Charter Township of Waterford

	As of December 31,			
	2009	2010	2011	2012
Calculation of Debt Limit (1)				
State equalized valuation	\$ 2,913,133,370	\$ 2,356,726,670	\$ 2,050,367,380	\$ 1,974,086,000
Debt limit (10% of SEV)	291,313,337	235,672,667	205,036,738	197,408,600
Calculation of Debt Subject to Limit				
Total debt	27,976,528	27,534,634	27,888,706	27,666,620
Less debt not subject to limit:				
Installment purchase agreements	-	-	-	-
Notes payable	-	-	-	-
Special assessment bonds	20,000	10,000	-	-
Revenue bonds	-	-	-	-
Enterprise fund bonds	15,471,528	16,529,634	18,263,707	19,328,651
Net Debt Subject to Limit	<u>12,485,000</u>	<u>10,995,000</u>	<u>9,624,999</u>	<u>8,337,969</u>
Legal Debt Margin	\$ 278,828,337	\$ 224,677,667	\$ 195,411,739	\$ 189,070,631
Net Debt Subject to Limit as Percentage of Debt Limit	4.29%	4.67%	4.69%	4.22%

(1) The legal debt limit continues to be derived from State Equalized Value (SEV), not Taxable Value (TV).

Source: Township annual financial statements, Total SEV Township Assessing Department records

Legal Debt Margin

Last Ten Fiscal Years

(Unaudited)

As of December 31,					
2013	2014	2015	2016	2017	2018
\$ 1,975,795,165	\$ 2,057,190,519	\$ 2,274,460,656	\$ 2,499,248,796	\$ 2,693,797,860	\$ 2,800,919,235
197,579,517	205,719,052	227,446,066	249,924,880	269,379,786	280,091,924
30,066,899	38,423,047	41,396,146	39,244,026	35,520,501	33,059,638
-	-	672,614	691,517	523,509	352,294
-	-	-	305,311	293,098	-
-	-	-	-	-	-
-	-	-	-	-	-
22,968,930	32,500,078	36,033,495	34,868,462	32,719,833	32,199,070
7,097,969	5,922,969	4,690,037	3,378,736	1,984,061	508,274
\$ 190,481,548	\$ 199,796,083	\$ 222,756,029	\$ 246,546,144	\$ 267,395,725	\$ 279,583,650
3.59%	2.88%	2.06%	1.35%	0.74%	0.18%

Demographic and Economic Statistics

Last Ten Fiscal Years
(Unaudited)

Fiscal Year	Population	Personal Income (in thousands)	Estimated Number of Households	Per Capita Personal Income	Median Age	Unemployment Rate
2009	70,678 (1)	\$ 2,006,336	29,316	\$ 28,387	40.8	7.9%
2010	70,749 (2)	2,017,620	29,140	28,518	38.8	9.0%
2011	71,798 (3)	2,110,933	29,892	29,401	39.1	9.3%
2012	72,171 (4)	1,906,974	27,700	26,423	37.5	8.8%
2013	72,645 (5)	1,899,739	29,523	26,151	39.6	8.9%
2014	72,181 (6)	2,072,822	29,612	28,717	40.0	6.8%
2015	72,503 (7)	2,049,515	29,255	28,268	40.7	4.6%
2016	72,756 (8)	2,266,277	30,342	31,149	40.5	4.0%
2017	72,863 (9)	2,126,798	29,525	29,189	41.0	3.6%
2018	72,948 (10)	2,447,478	32,284	33,551	41.7	3.5%

- (1) 2008 Census Department - American Community Survey Data Profile Review
 - (2) 2009 Census Department - American Community Survey Data Profile Review
 - (3) 2010 Census Department - American Community Survey Data Profile Review
 - (4) 2011 Census Department - American Community Survey Data Profile Review
 - (5) 2012 Census Department - American Community Survey Data Profile Review
 - (6) 2013 Census Department - American Community Survey Data Profile Review
 - (7) 2014 Census Department - American Community Survey Data Profile Review
 - (8) 2015 Census Department - American Community Survey Data Profile Review
 - (9) 2016 Census Department - American Community Survey Data Profile Review
 - (10) 2017 Census Department - American Community Survey Data Profile Review
- N/A - Not available

Principal Employers

December 31, 2018
(Unaudited)

Employer	Enterprise	2018		2009	
		Employees (1) (2)	Percentage of Total	Employees	Percentage of Total
1 Oakland County	Government	1,450	3.7%	1,735	4.4%
2 Waterford School District	Education	1,335	3.4%	1,510	N/A
3 Township Of Waterford (2)	Government	495	1.2%	336	N/A
4 Oakland Intermediary Schools	Education	415	1.0%	313	N/A
5 Penn Engineering	Manufacturing	291	0.7%	N/A	N/A
6 Oakland Community College*	Education	264	0.7%	N/A	N/A
7 Meijer	Retail	260	0.7%	402	N/A
8 Canterbury Healthcare, Inc.	Nursing care	256	0.6%	232	N/A
9 Pentastar Aviation, LLC	Air transportation	230	0.6%	220	N/A
10 Road Commission Of Oakland Cty	Transportation	211	0.5%	430	N/A
Total		5,207			
Total Township Employment (1)		39,676			

(1) Data is from various sources including 2017 American Community Survey S2301

(2) Direct full-time and part-time employees only - Not contracted/outsourced

*Direct hire and estimated Adjunct

Full-time Equivalent Government Employees

Last Ten Fiscal Years
(Unaudited)

Department	2009	2010 (1)	2011	2012	2013	2014	2015	2016	2017	2018
Supervisor/Assessing	9	7	6	7	6	6	6	7	7	8
Clerk's office	6	6	5	6	6	6	6	7	7	7
Treasurer's office	6	6	6	6	6	6	6	6	6	6
Fiscal and human resources	2	2	2	2	2	2	2	2	2	2
51st District Court	30	25	25	23	23	23	22	19	20	20
Planning and development	7	6	5	3	3	3	3	3	3	3
Information systems	5	4	3	3	3	3	3	4	4	4
Facilities and operations	10	8	8	10	10	10	10	8	8	8
Building and engineering	9	9	9	8	7	7	8	8	8	8
Parks and recreation	12	10	9	6	6	5	6	8	8	8
Police department	99	71	64	65	64	63	66	67	72	69
Fire department (2,3,4,5,6,7)	71	67	64	106	146	140	104	119	138	131
Library	20	19	13	13	12	13	13	13	14	14
Water and sewer	50	43	42	41	40	41	40	41	39	39
Cable	-	-	-	-	-	-	-	1	1	1
Total	336	283	261	299	334	328	295	313	337	328

(1) Numbers reflect retirement of 20 employees on 12/31/10 (Retirements: Court-3, Police-15, Fire-1, Water and Sewer-1).

(2) In 2012 Waterford Twp began providing Fire Service to Pontiac which increased staffing by 42 positions.

(3) In 2013 Waterford Twp was awarded a Federal Safer Grant which increased the Fire Dep't staffing by 39 positions.

(4) In 2015 Waterford Twp Federal Safer Grant was not renewed resulting in the lay of the 39 grant positions.

(5) In 2016 Waterford Twp was awarded a Federal Safer Grant which increased the Fire Dep't staffing by 15 positions at year end.

(6) In 2017 Waterford Twp Fire Dep't increased staffing for the Federal Safer Grant by an add'l 21 positions, for a total of 36 grant positions.

(7) In 2018 Waterford Twp Fire Dep't had 35 of 39 positions related to the Federal Safer Grant.

Note: Full-time employees reported only, data are not available for equivalent part-time positions.

Source: Payroll & Benefit department and other records

Charter Township of Waterford

Function/Program	2009	2010	2011	2012
Police				
Physical arrests	1,832	1,492	1,614	1,829
Traffic violations	10,160	6,359	4,935	6,645
Nontraffic misdemeanors	704	527	463	456
Nontraffic civil infractions	611	272	374	188
Fire				
Emergency responses	5,819	5,953	6,080	10,025
Fires extinguished	137	166	147	605
Inspections	1,107	948	550	959
Parks and Recreation				
Recreation programs (estimated)	782	795	783	792
Library				
Circulation (books borrowed)	412,284	401,022	366,837	347,496
Collection volume	158,316	177,320	165,989	179,022
Visits - Walk-ins	308,638	297,142	259,155	235,971
Visits - Website	227,856	144,139	148,731	149,836
Water				
New connections	86	67	70	58
Water main breaks	27	15	28	22
Total consumption (billed - cubic feet)	320,941,837	316,715,587	309,809,655	320,451,892
Average annual consumption per customer (gallons)	60,536	59,339	58,442	58,292

Source: Township departmental correspondence

Operating Indicators

**Last Ten Fiscal Years
(Unaudited)(Continued)**

2013	2014	2015	2016	2017	2018
1,626	1,062	915	1,019	1,161	1,183
5,698	3,391	4,286	4,179	3,815	4,170
497	310	284	724	883	868
256	315	420	711	875	1,095
10,502	11,276	11,398	12,104	13,095	13,587
545	542	487	519	519	400
1,038	750	1,033	1,045	709	692
814	810	817	612	615	614
316,764	317,510	291,656	279,587	271,667	260,813
181,265	188,328	195,377	638,798	602,814	130,371
233,477	198,183	183,775	175,120	170,981	165,883
148,346	185,378	372,372	194,511	445,200	561,083
67	74	86	91	133	108
24	45	16	14	15	27
275,327,916	258,557,800	267,587,530	288,257,794	273,197,387	276,935,659
53,714	50,601	50,990	50,212	48,447	48,327

Function/Program	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Police										
Stations	1	1	1	1	1	1	1	1	1	1
Patrol units	51	52	46	49	46	44	44	28	26	28
Fire										
Stations	5	5	5	10	10	9	9	9	9	9
Emergency response vehicles	14	14	14	24	27	27	27	27	27	27
Parks and Recreation										
Acreage	714	854	854	854	854	854	854	854	854	854
Playgrounds	8	8	8	8	8	6	3	3	3	3
Soccer fields	6	7	7	7	7	8	8	8	8	8
Baseball/Softball diamonds	13	13	13	13	13	13	13	13	13	13
Libraries										
Branches	2	1	1	1	1	1	1	1	1	1
Water										
Mains (miles)	350	350	350	350	350	350	350	350	350	350
Fire hydrants	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
Storage capacity (millions of gallons)	9	9	9	9	9	9	9	9	9	9
Sewer										
Miles of sanitary sewers	350	350	350	350	350	350	350	350	350	350

Source: Departmental correspondence