



Dave Yost • Auditor of State



# OHIO AUDITOR OF STATE KEITH FABER



January 15, 2019

The attached audit report was completed and prepared for release prior to the commencement of my term of office on January 14, 2019. Reports completed prior to that date contain the signature of my predecessor.

Ohio Auditor of State

A handwritten signature in cursive script that reads "Keith Faber".





# Dave Yost • Auditor of State

## INDEPENDENT AUDITOR'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND ON COMPLIANCE AND OTHER MATTERS REQUIRED BY *GOVERNMENT AUDITING STANDARDS*

Mahoning Valley Sanitary District  
Trumbull County  
PO Box 4119  
Youngstown, Ohio 44515

To the Board of Directors:

We have audited, in accordance with auditing standards generally accepted in the United States and the Comptroller General of the United States' *Government Auditing Standards*, the financial statements of the Mahoning Valley Sanitary District, Trumbull County, (the District) as of and for the year ended June 30, 2018 and the related notes to the financial statements, which collectively comprise the District's basic financial statements and have issued our report thereon dated December 18, 2018, wherein we noted the District changed its basis of reporting from a modified cash basis to the accrual basis for its financial statements. This change required that certain adjustments be recorded to the June 30, 2017 net position as previously reported to reflect the prior year's effect of adopting these new accounting principles.

### ***Internal Control Over Financial Reporting***

As part of our financial statement audit, we considered the District's internal control over financial reporting (internal control) to determine the audit procedures appropriate in the circumstances to the extent necessary to support our opinion on the financial statements, but not to the extent necessary to opine on the effectiveness of the District's internal control. Accordingly, we have not opined on it.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, when performing their assigned functions, to prevent, or detect and timely correct misstatements. A *material weakness* is a deficiency, or combination of internal control deficiencies resulting in a reasonable possibility that internal control will not prevent or detect and timely correct a material misstatement of the District's financial statements. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all internal control deficiencies that might be material weaknesses or significant deficiencies. Given these limitations, we did not identify any deficiencies in internal control that we consider material weaknesses. However, unidentified material weaknesses may exist.

***Compliance and Other Matters***

As part of reasonably assuring whether the District's financial statements are free of material misstatement, we tested its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could directly and materially affect the determination of financial statement amounts. However, opining on compliance with those provisions was not an objective of our audit and accordingly, we do not express an opinion. The results of our tests disclosed no instances of noncompliance or other matters we must report under *Government Auditing Standards*.

***Purpose of this Report***

This report only describes the scope of our internal control and compliance testing and our testing results, and does not opine on the effectiveness of the District's internal control or on compliance. This report is an integral part of an audit performed under *Government Auditing Standards* in considering the District's internal control and compliance. Accordingly, this report is not suitable for any other purpose.

A handwritten signature in black ink that reads "Dave Yost". The signature is written in a cursive style with a large, looping "D" and "Y".

**Dave Yost**  
Auditor of State  
Columbus, Ohio

December 18, 2018

# **Mahoning Valley Sanitary District, Ohio**

**For the Fiscal Year Ended June 30, 2018  
Comprehensive Annual Financial Report**



## **Our Mission Statement**

***The Mahoning Valley Sanitary District and its employees are committed to preserving the public health and the natural environment while providing a safe and reliable supply of potable water. The employees of the Mahoning Valley Sanitary District are well trained in order to serve the Mahoning Valley community in the most efficient, courteous way possible in providing quality service.***

Alan Tatalovich, CPA  
Secretary/Treasurer

Rhonda Lucivjansky, CPA, MBA  
Deputy Chief Financial Officer

*(This page intentionally left blank)*



# **Mahoning Valley Sanitary District, Ohio**

## **Comprehensive Annual Financial Report**

*For the Fiscal Year Ended June 30, 2018*

Issued by:

Department of Finance and Administration

Alan Tatalovich, CPA  
Secretary/Treasurer

Rhonda Lucivjansky, CPA, MBA  
Deputy Chief Financial Officer

*(This page intentionally left blank)*

---

# Introductory Section

---

*(This page intentionally left blank)*

**Mahoning Valley Sanitary District, Ohio**  
*Comprehensive Annual Financial Report*  
*For the Fiscal Year Ended June 30, 2018*  
*Table of Contents*

	<u>Page</u>
<b>I. Introductory Section</b>	
Table of Contents .....	i
Letter of Transmittal .....	iii
List of Principal Officials.....	xi
Organizational Chart .....	xii
Government Finance Officers Association Certificate .....	xiii
 <b>II. Financial Section</b>	
Independent Auditor’s Report.....	1
Management’s Discussion and Analysis.....	5
Basic Financial Statements:	
Fund Financial Statements:	
Statement of Net Position .....	11
Statement of Revenues, Expenses and Changes in Net Position .....	12
Statement of Cash Flows .....	13
Notes to the Basic Financial Statements.....	15
Required Supplementary Information	
Schedule of the District’s Proportionate Share of the Net Pension Liability – Ohio Public Employees Retirement System – Traditional Plan – Last Two Fiscal Years .....	42
Schedule of the District’s Proportionate Share of the Net Pension Liability – Ohio Public Employees Retirement System – Combined Plan – Last Two Fiscal Years .....	43
Schedule of the District’s Proportionate Share of the Net OPEB Liability – Ohio Public Employees Retirement System – OPEB Plan – Last Two Fiscal Years.....	44
Schedule of the District’s Contributions – Ohio Public Employees Retirement System – Traditional Plan – Last Two Fiscal Years .....	45
Schedule of the District’s Contributions – Ohio Public Employees Retirement System – Combined Plan – Last Two Fiscal Years .....	46
Schedule of the District’s Contributions – Ohio Public Employees Retirement System – OPEB Plan – Last Two Fiscal Years.....	47

**Mahoning Valley Sanitary District, Ohio**  
*Comprehensive Annual Financial Report*  
*For the Fiscal Year Ended June 30, 2018*  
*Table of Contents*

	<u>Page</u>
III. Statistical Section	
Statistical Section Description .....	S1
Net Position by Component – Last Two Fiscal Years .....	S2
Change in Net Position – Last Fiscal Year .....	S3
Charges for Services and Principal Payers – Last Two Fiscal Years.....	S4
Water Billing Rate – Last Two Fiscal Years .....	S5
Pledged Revenue Coverage – Last Fiscal Year .....	S7
Ratio of Debt per Capita – Last Two Fiscal Years .....	S8
Demographic and Economic Statistics – Last Ten Fiscal Years.....	S10
Principal Employers – Current Fiscal Year and Nine Years Ago.....	S12
Operating Indicators – Last Two Fiscal Years.....	S13
Capital Assets – Last Two Fiscal Years.....	S14
Full-Time Equivalent District Employees by Department – Last Two Fiscal Years.....	S15



MAILING ADDRESS:  
P.O. Box 4119  
Youngstown, Ohio 44515-0119

SHIPPING ADDRESS:  
1181 Ohltown-McDonald Road  
Mineral Ridge, Ohio 44440

TELEPHONE: (330) 799-6315 • (330) 652-3614 • FAX (330) 652-6293

---

STATE OF OHIO  
**THE MAHONING VALLEY SANITARY DISTRICT**

December 18, 2018

Member Cities of Youngstown and Niles,  
Village of McDonald and Members of the Board of Directors:

We are pleased to submit to you the Comprehensive Annual Financial Report of the Mahoning Valley Sanitary District (the District) for the fiscal year ended June 30, 2018. This is the first year that the District has submitted its financial report within the broader framework of a comprehensive annual financial report (CAFR). The CAFR format provides the District with a better way to communicate its financial position with the public. In a CAFR, financial information is put within a larger context that provides the reader with the opportunity to understand how the District functions and the environment in which it operates.

Ohio Revised Code Section 117.38 requires that the District, as a public office, file a financial report for each fiscal year. The District's financial report conforms with generally accepted accounting principles (GAAP). The law requires that a financial report of this type be filed with the Auditor of State within 150 days after the close of the fiscal year. At the time the report is filed with Auditor of State, the District's Chief Fiscal Officer is required to publish a notice in the newspaper that the report has been completed and is available for public inspection.

The District's management assumes full responsibility for the contents of this report. The financial statements in the report are the work of District management, not the work of independent auditors.

To compile the information for the financial statements in conformity with GAAP, the District has a comprehensive framework of internal control in place. Because the cost of internal control should not outweigh the benefit, the framework has been designed to provide reasonable—not absolute—assurance that the financial statements are free from material misstatement.

Ohio law requires independent audits to be performed on all financial operations of the District either by the Ohio Auditor of State or an independent public accounting firm, if permitted by the Auditor of State. The Auditor of State has rendered an opinion on the District's financial statements as of June 30, 2018, and the Independent Auditor's Report on the basic financial statements is included in the financial section of this report.

Immediately following the independent auditor's report is a narrative introduction, overview and analysis of the basic financial statements, entitled Management's Discussion & Analysis (MD&A). This letter of transmittal is meant to complement the MD&A, and is best read in conjunction with it.

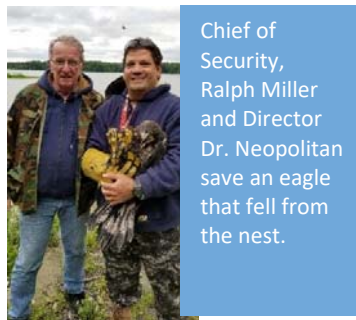
### ***Profile of the District***

The Mahoning Valley Sanitary District ("the District") was formed in 1926 and began supplying water in 1932. The District provides quality water to the member cities – the City of Youngstown and the City of Niles; and by special contract to the Village of McDonald. The members serve surrounding areas such as Girard, Canfield, Mineral Ridge, Lordstown and portions of 10 other townships.

The District is a political subdivision of the State of Ohio established under the authority of the Sanitary Act of Ohio and governed by the Ohio Revised Code Chapter 6115. The Sanitary District Act empowers the District to provide water supply, treatment, transmission feeder systems and storage reservoirs, but not distribution. A Court of Jurisdiction that includes the Trumbull and Mahoning County Court of Common Pleas and a Board of Directors that is appointed by the member cities oversees the District.

The District's water supply comes from the Meander Creek Reservoir. The Reservoir is seven miles long, covers 2,010 acres with 40 miles of shoreline, and has a capacity of 11 billion gallons. District owned land includes 5,500 acres enclosed by 35 miles of fence. The land is reforested with 4 million evergreens and serves as an unofficial fish and game refuge – with no public access permitted.

While the District serves as an unofficial refuge, the employees have opportunity to capture the beauty of the District and sometimes an opportunity to save our wildlife. (Pictured below)



A beautiful walk at the District! Photo by Carolyn Hrusovsky

The District's current capacity is 60 million gallons per day and for recent years the average pumping per day over a fiscal year has been 20.5 million gallons per day. The District's water supply is treated using state of the art settling technology and equipment to deliver, pure, safe, clear, sparkling, soft, potable water to its member cities. These member cities will distribute our treated water to many surrounding towns, cities and villages in the Mahoning Valley which total approximately 225,000 end users.

The District's Board of Directors consists of four members, two from the City of Youngstown and two from the City of Niles. Vernard Richberg, the Youngstown City Council appointment, served as President of the Board for fiscal year 2018. Other Board members included: Dr. Michael Neopolitan, as the City of Niles mayoral appointment; Richard K. Hale, Niles City Council appointment; and James A. Gibbs, the City of Youngstown mayoral appointment. Matthew J. Blair served as the City of Niles mayoral appointment until May 2018.





Richard K. Hale



Dr. Michael Neopolitan



Vernard Richberg



James A. Gibbs

The Board's overall hiring policy is to maintain proper staffing levels so that maintenance and service is maintained throughout operations. In September 2017, the Board hired a District Chief Engineer who holds an Ohio EPA Class IV water supply license which is an essential requirement for this facility. The Union and the Board of Directors came to agreement on the collective bargaining agreement in August 2016 and this agreement will be in place through June 30, 2019. The District has implemented a plant wide Supervisory Control and Data Acquisition (SCADA) system. The SCADA system automates some functions of the water purification process that are currently performed manually by District employees.

The Board annually advertises for bids on chemicals that are needed in the purification process. The District will continue to have concerns with costs for the purification process as the high cost for energy drives the overall cost for chemicals. The unpredictability of prices for chemicals as well as our other variable costs such as electricity, natural gas heat and sludge removal will continue to remain an area of concern for District management. Overall the cost of chemicals to treat water continues to rise but the District has entered into a 3 year agreement to substantially reduce electric costs in hopes that this will offset some of the increases in chemical costs.

A cost of service study was conducted to establish the water rates charged by the District to the member cities to pay the costs of operating and maintaining the facilities of the District, pay debt and finance improvement projects. The resulting schedule is then approved by the Court of Jurisdiction. The rates applied during fiscal year 2018 were a continuation of rates approved for 2015-2016. The rate includes a fixed cost component of \$15,334,594 annually which is charged to the members monthly in the amount of \$1,277,883 and a variable component based on water pumped to the member cities. Currently the variable cost component is per 1,000 gallons: \$0.1405 for electricity, \$0.1536 for chemicals and \$0.0661 for sludge.

The Mahoning Valley Sanitary District has reviewed its reporting entity description in order to ensure conformance with the Governmental Accounting Standards Board (GASB) Statement No. 14, "The Financial Reporting Entity" and GASB Statement No. 61, "The Financial Reporting Entity: Omnibus; an amendment of GASB Statements No. 14 and No. 34". In evaluating how to define the District for financial reporting purposes, management has considered its relationship with all departments, boards and agencies that make up the Mahoning Valley Sanitary District. For Mahoning Valley Sanitary District, this includes general operations of the District.

A complete discussion of the District's reporting entity is provided in Note 1 to the basic financial statements.

### ***What Goes into Your Water?***

Our raw water intake is isolated from pollution sources. But there is not a raw water or untreated lake source that is safe to drink without some level of treatment. Even when that source is a protected source like the Meander Reservoir.

Each and every day the staff at Meander Water monitors and consistently treats the water that is drawn from the lake with chemicals. That may sound a little scary, but these chemicals, administered by water professionals, ensure that you receive safe and quality water whenever and wherever you need it.

Some of these chemicals are used to remove harmful pathogens and debris from the water. Some, like chlorine, are used to disinfect the treated water. While others, such as orthophosphate, are being introduced to ensure

continued safety all the way to the users tap. Depending on the daily and seasonal changes of our raw water quality, we may add more or less of these chemicals to hit our water quality targets. The most important targets are complying with all regulatory requirements and standards. However, we view these standards as the bare minimum and strive to far exceed these minimums.

Below is a list of most of the chemicals we use for treatment at our facility. These chemicals all have to be approved for use by the Ohio EPA through the EPA's NSF (National Sanitation Foundation) certification.

- **Potassium Permanganate** – A chemical used to oxidize organics in the raw water. It helps with taste and odor issues, disinfection and improves filtering capabilities.
- **Aluminum Chloro Hydrate** – This is one of the two most important chemicals we use. It is used to make the dirt particles in the raw water stick together to form larger particles that will settle out in the clarifier portion of the process, clarifying the water.
- **Lime** – Used to adjust the water pH and to reduce the hardness of the water.
- **Chlorine** – The other most important chemical we use. We use chlorine to disinfect the clarified water. Ammonia is added just before the distribution entry point to form a stable chloramination compound to reduce the production of DBP's and to inhibit distribution system bacterial growth.
- **Hydrofluorsilicic Acid** – Also known as fluoride. A compound required by State law to prevent dental cavities.
- **Polymer Agents** – Proprietary chemicals used to help our filters even do a better job of removing particles to clarify the water.
- **Phosphoric Acid** – Also known as phosphates. This chemical is added to prevent lead and copper corrosion by forming a coating on plumbing and pipes.
- **Powdered Activated Carbon** – This is added to the treatment process ahead of the Lime and Coagulant chemicals. It is used to adsorb natural organic compounds as well as taste and odor compounds caused by algae, organic material and reservoir turnover issues.

### ***Local Economy***

According to the United States Census Bureau from 2010 to 2017 the population of Mahoning County has decreased by 3.8 percent and currently is 238,823 and Trumbull County has decreased by 4.7 percent and currently is 210,312. This has translated into a decrease in water consumption. However, Niles has expanded its customer base which has resulted in an increase in water being pumped so far for fiscal year 2019. The average in July 2018 was 23.292 million gallons per day (mgd) and 24.586 mgd in August 2018.

### ***General Information***

The District employs 49 full-time employees and 1 part-time employee:

- 1 Certified Class IV (Water Supply Operators with another one pending)
- 10 Certified Class III (Water Supply Operators)
- 2 Certified Class II (Water Supply Operators)
- 7 Certified Class I (Water Supply Operators)
- Full-Time Security Staff

This year our Secretary/Treasurer, Alan Tatalovich retired. Mr. Tatalovich is recognized for his 31 years of service and outstanding performance of his duties to the District.

The Board appointed a new Secretary/Treasurer, effective October 1, 2018, Rhonda Lucivjansky, CPA, MBA. Mrs. Lucivjansky will serve as the first female Secretary/Treasurer in the 92 year history of the District.

The Mahoning Valley Sanitary District and its employees are committed to preserving the public health and the natural environment while providing a safe and reliable supply of potable water. The employees of the Mahoning Valley Sanitary District are well trained in order to serve the Mahoning Valley community in the most efficient, courteous way possible in providing quality service.

### ***Long-Term Financial Planning***

The cost of services study has indicated that the current rates being charged to the member cities are sufficient to cover the operating expenses, debt payments and partially fund capital projects for the next five years.

The District has major ongoing expense to its water purification plant built in 1926 and the maintenance of 20 buildings and 30 vehicles including heavy equipment. Rehabilitation or the replacement of obsolete infrastructure and equipment vital to the purification of water is a goal of management to ensure continued service without affecting the finished product. The District's Board and management look to implementing new, cutting edge technology in every area of the operation that is economically cost effective and efficient. The current Amendment No. 5 and Amendment No. 6 incorporate some of the latest and best water treatment technology now available and used in the water industry as well as provide a complete overhaul of existing equipment (refurbishing) rather than purchasing new. These amendments to the official plan of the District which was originally established in 1926 were presented to the District's member cities through meetings with important stakeholders and memorialized in the District's five year operating and capital improvement plan. The five-year forecast is utilized by staff to manage the District's infrastructure resources effectively. The District plans to use a ratio of 50 percent cash to 50 percent debt financing for these projects over the next few years.

Major projects expected to be undertaken in the next five years include:

- Dam and Spillway Restoration
- Standby Power
- Phase IV Valve Replacement
- Administration/Filter Building Repair and Restoration
- High Service Pump Station Retrofit

### ***Past, Current & Future Projects***

Headhouse Lime Slakers and Silos

Cost: over \$2.8 million



Headhouse Lime Slaker –  
View 1



Silos

Valve Replacement Project Phase III

Costs: over \$6.6 million



Valve Replacement Project Phase III  
Site F (Main and 5<sup>th</sup> St) Niles 20-inch  
Valve and Vault



Valve Replacement Project Phase III Site L  
& M (Salt Springs and Bridge) 42-inch Valve  
and Vault

Venturi Meters Replacements

Costs: \$1.72 million



Youngstown 36"



Youngstown 48"



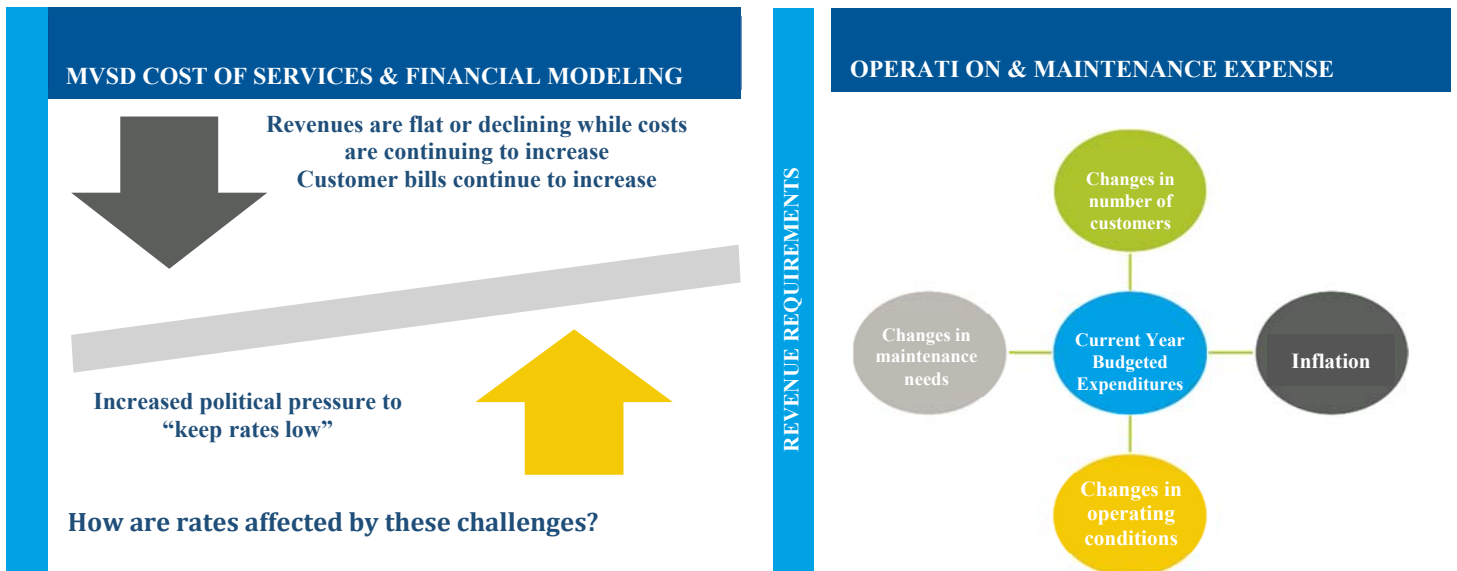
Youngstown 48" & 36" Site

### ***Asset Management Program***

- The District has initiated a comprehensive asset management program to comply with Ohio Senate Bill 2.
- The OEPA regulations required that this asset management program be implemented by October 1, 2018. The asset management required by Ohio EPA has technical, managerial and financial components.
- The District made every effort to implement this program by the deadline.

### ***Cost of Services and Financial Modeling***

- Cost of services is an industry recommended process to determine revenue sufficiency, cost allocation, and financial planning.
- It promotes efficient use of resources, and dynamic efficiency in responding to changing supply and demand patterns.
- The District is in the process of developing a long-term financial model taking into account revenue requirements, operating and maintenance expenses including capital costs.
- The District will follow generally accepted industry standards as depicted in the American Water Works Associations Guidance Manual M1 “Principles of Water Rates, Fees and Charges”.
- The District expects to complete this study within four to five months with help from a professional consulting firm



***Emergency Action Plan*** - EAP Preparation and Exercise was approximately \$37,000.

The purpose of the Emergency Action Plan (EAP) is to reduce the risk of human life loss and injury and minimize property damage downstream of Mineral Ridge Dam along Meander Creek, Mosquito Creek, and the Mahoning River in the event of the failure of the dam at Meander Creek Reservoir. The EAP defines responsibilities and provides procedures designed to identify unusual and emergency conditions that may endanger Mineral Ridge Dam, perform necessary mitigation actions, and notify the appropriate emergency management authorities of possible, impending or actual failure of the dam. This is also required by the ODNR given the Mineral Ridge Dam is a Class I (High-Hazard) dam.

***Relevant Financial Policies***

The mission of the District is to develop, maintain and implement financial accounting policies and procedures to protect and optimize the financial resources of the District. The District provides a sound accounting system for safeguarding the District's assets through the recording and reporting of financial transactions according to mandated laws and guidelines of Federal law, Ohio Revised Code and Generally Accepted Accounting Principles (GAAP). The departmental goals are to develop sound fiscal policies, provide solid fiscal management for the District, maintain reserves and fiscal integrity and protect the assets of the consumers of the water.

***Awards and Acknowledgements***

Mahoning Valley Sanitary District received the Award for Small Government Cash Basis Reports from the Government Finance Officers Association (GFOA) for its annual report for the fiscal year ended June 30, 2017. This is the first year that the District has submitted a report to GFOA for the prestigious Certificate of Achievement for Excellence in Financial Reporting. In order to receive a Certificate of Achievement, a government unit must publish an easily readable and efficiently organized Comprehensive Annual Financial Report, whose contents conform to program standards. Such a report must satisfy both generally accepted accounting principles and applicable legal requirements. A Certificate of Achievement is valid for a period of one year only. We believe our current report conforms to the Certificate of Achievement program requirements, and we are submitting it to GFOA.

The preparation of this report could not have been accomplished without the efficient and dedicated service of various staff within the Administration. Their efforts are greatly appreciated. Credit must also be given to the Board of Directors for their unfailing support for maintaining the highest standards of professionalism in the management of the District's finances. Special appreciation is expressed to the Local Government Services Section of State Auditor Dave Yost's office for assistance in the planning, designing and reviewing of this financial report.

Respectfully submitted,



Rhonda Lucivjansky  
Secretary/Treasurer

# MAHONING VALLEY SANITARY DISTRICT

## List of Principal Officials at June 30, 2018

### APPOINTED OFFICIALS

CITY OF NILES, MAYORAL APPOINTMENT  
CITY OF NILES, COUNCIL APPOINTMENT

DR. MICHAEL NEOPOLITAN  
RICHARD K. HALE

CITY OF YOUNGSTOWN, MAYORAL APPOINTMENT  
CITY OF YOUNGSTOWN, COUNCIL APPOINTMENT

JAMES A. GIBBS  
VERNARD RICHBERG

### ADMINISTRATIVE STAFF

CHIEF ENGINEER  
SECRETARY/TREASURER  
DEPUTY CHIEF FINANCIAL OFFICER

RAMESH KASHINKUNTI  
ALAN TATALOVICH (1)  
RHONDA LUCIVJANKSY

SUPERINTENDENT OF PURIFICATION  
CHIEF OF OPERATIONS

JOHN NEMET  
KEITH REES

SUPERINTENDENT OF PUMPING

JOE WOODLEY

SUPERINTENDENT OF MAINTENANCE OPERATIONS  
& RESIDENT ENGINEER

JON JAMISON

CHIEF PATROLMAN

RALPH MILLER

FIELD MAINTENANCE SUPERVISOR

DUANE TURNAGE

ADMINISTRATIVE ASSISTANTS

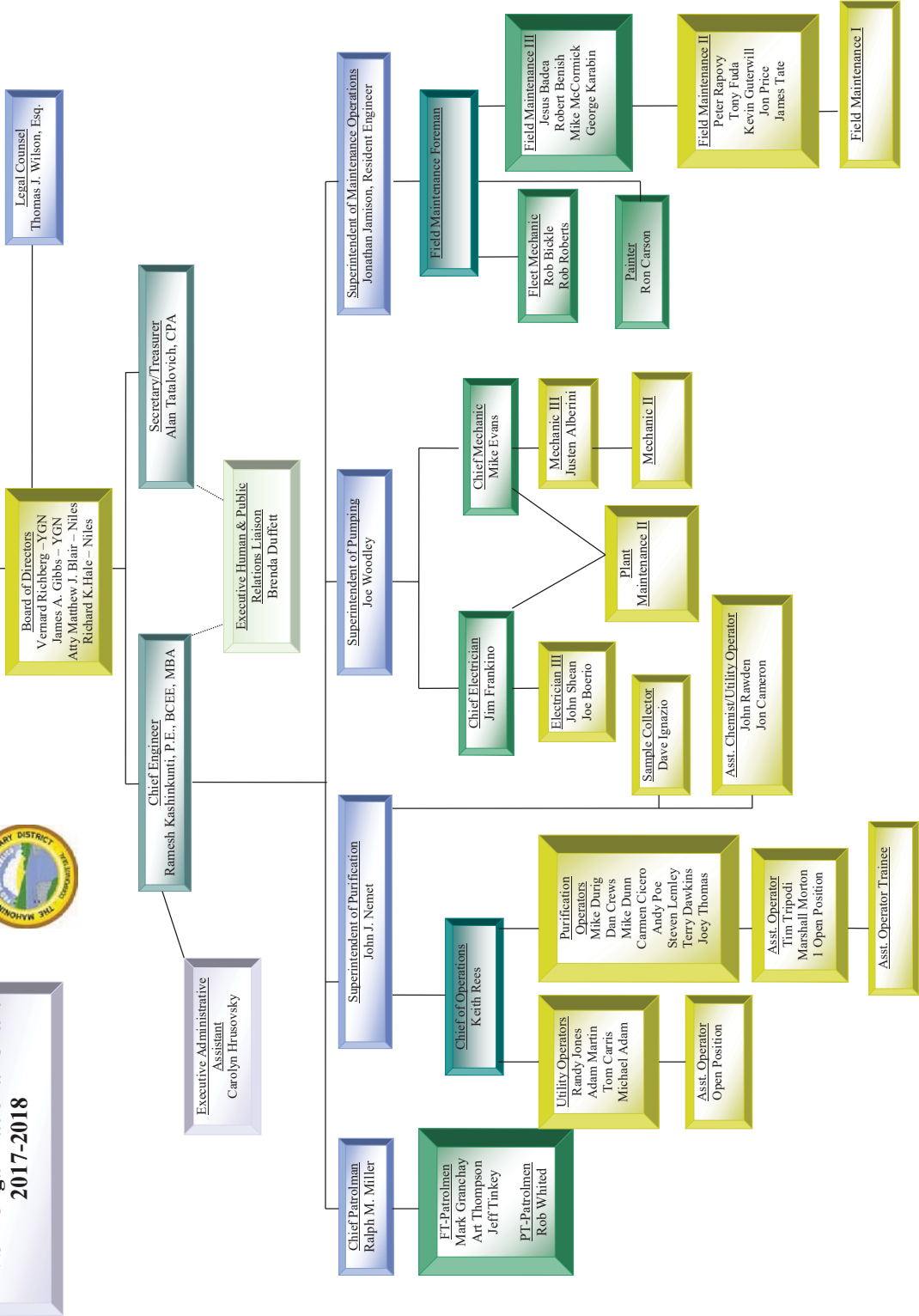
BRENDA DUFFETT  
CAROLYN HRUSOVSKY

(1) Effective October 1, 2018, Alan Tatalovich was replaced by Rhonda Lucivjansky.

# MVSD Organizational Chart 2017-2018



## COURTS OF JURISDICTION







Government Finance Officers Association

# Award for Small Government Cash Basis Reports

Presented to

**Mahoning Valley Sanitary District**  
**Ohio**

For its Annual Financial Report  
for the Fiscal Year Ended

**June 30, 2017**

*Christopher P. Morrill*

Executive Director/CEO

**This page intentionally left blank.**

---

# Financial Section

---

**This page intentionally left blank.**



# Dave Yost • Auditor of State

## INDEPENDENT AUDITOR'S REPORT

Mahoning Valley Sanitary District  
Trumbull County  
PO Box 4119  
Youngstown, Ohio 44515

To the Board of Directors:

### ***Report on the Financial Statements***

We have audited the accompanying financial statements of the Mahoning Valley Sanitary District, Trumbull County, Ohio (the District), as of and for the year ended June 30, 2018, and the related notes to the financial statements, which collectively comprise the District's basic financial statements as listed in the table of contents.

### ***Management's Responsibility for the Financial Statements***

Management is responsible for preparing and fairly presenting these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes designing, implementing, and maintaining internal control relevant to preparing and fairly presenting financial statements that are free from material misstatement, whether due to fraud or error.

### ***Auditor's Responsibility***

Our responsibility is to opine on these financial statements based on our audit. We audited in accordance with auditing standards generally accepted in the United States of America and the financial audit standards in the Comptroller General of the United States' *Government Auditing Standards*. Those standards require us to plan and perform the audit to reasonably assure the financial statements are free from material misstatement.

An audit requires obtaining evidence about financial statement amounts and disclosures. The procedures selected depend on our judgment, including assessing the risks of material financial statement misstatement, whether due to fraud or error. In assessing those risks, we consider internal control relevant to the District's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not to the extent needed to opine on the effectiveness of the District's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of management's accounting policies and the reasonableness of their significant accounting estimates, as well as our evaluation of the overall financial statement presentation.

We believe the audit evidence we obtained is sufficient and appropriate to support our audit opinion.

**Opinion**

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Mahoning Valley Sanitary District, Trumbull County, Ohio, as of June 30, 2018, and the changes in its financial position and its cash flows for the year then ended in accordance with the accounting principles generally accepted in the United States of America.

**Emphasis of a Matter**

As discussed in Note 13 to the financial statements, in 2018 the District changed its basis of reporting from a modified cash basis to the accrual basis for its financial statements. This change required that certain adjustments be recorded to the June 30, 2017 net position as previously reported to reflect the prior year's effect of adopting these new accounting principles. We did not modify our opinion regarding this matter.

**Other Matters**

*Required Supplementary Information*

Accounting principles generally accepted in the United States of America require this presentation to include *management's discussion and analysis*, and schedules of net pension and other post-employment benefit liabilities and pension and other post-employment benefit contributions listed in the table of contents, to supplement the basic financial statements. Although this information is not part of the basic financial statements, the Governmental Accounting Standards Board considers it essential for placing the basic financial statements in an appropriate operational, economic, or historical context. We applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, consisting of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, to the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not opine or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to opine or provide any other assurance.

*Supplementary and Other Information*

Our audit was conducted to opine on the District's basic financial statements taken as a whole.

The introductory section and the statistical section information present additional analysis and are not a required part of the basic financial statements.

We did not subject the introductory section and statistical section information to the auditing procedures applied in the audit of the basic financial statements and, accordingly, we express no opinion or any other assurance on them.

**Other Reporting Required by Government Auditing Standards**

In accordance with *Government Auditing Standards*, we will also issue our report dated December 18, 2108, on our consideration of the District's internal control over financial reporting and our tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements and other matters. That report describes the scope of our internal control testing over financial reporting and compliance, and the results of that testing, and does not opine on 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 District's internal control over financial reporting and compliance.

A handwritten signature in black ink that reads "Dave Yost". The signature is written in a cursive style with a large, looping "D" and "Y".

**Dave Yost**  
Auditor of State  
Columbus, Ohio

December 18, 2018

*(This page intentionally left blank)*



**Mahoning Valley Sanitary District**  
*Management's Discussion and Analysis*  
*For the Fiscal Year Ended June 30, 2018*  
*Unaudited*

---

The discussion and analysis of the Mahoning Valley Sanitary District's (the District) financial performance provides an overall review of the District's financial activities for the fiscal year ended June 30, 2018. The intent of this discussion and analysis is to look at the District's financial performance as a whole; readers should also review the transmittal letter, the basic financial statements as well as the notes to the basic financial statements to enhance their understanding of the District's financial performance.

### **Financial Highlights**

Key financial highlights for fiscal year 2018 are as follows:

- For fiscal year 2018, the District has presented financial statements in accordance with generally accepted accounting principles. In conjunction with this presentation, the District has changed its basis of accounting from a modified cash basis to the accrual basis for its financial statements.
- The District's net position increased by \$5,836,487 from fiscal year 2017. This increase is due to a significant increase in the District's capital assets coupled with a decrease in long-term liabilities.
- Capital assets increased from the prior fiscal year due to current year additions outpacing depreciation. Capital asset additions included additional work on several ongoing construction projects and some additions to buildings.
- Long-term liabilities decreased as a result of a few factors. The net pension/OPEB liabilities decreased from the prior fiscal year and the District made an additional year of debt payments. Current year bond and loan payments exceeded the proceeds received for non-final OWDA loans.

### **Using This Comprehensive Annual Financial Report ("CAFR")**

This annual report consists of financial statements and notes to those statements. These statements are presented following the requirements of Governmental Accounting Standards Board ("GASB") Statement No. 34, and are organized so the reader can understand the Mahoning Valley Sanitary District.

The *Statement of Net Position* and *Statement of Revenues, Expenses and Changes in Net Position* provide information about the activities of the District, and asks the questions, "Are we in a better financial position this year than last?" and "Why" or "Why not". The statements include *all assets and deferred outflows of resources and liabilities and deferred inflows of resources* using the *accrual basis of accounting* similar to the accounting used by most private-sector companies. This basis of accounting recognizes all of the current year's revenues and expenses regardless of when cash is received or paid.

### **The Sanitary District**

Recall that the *Statement of Net Position* shows assets, liabilities, deferred outflows and inflows and the difference between them (net position).

**Mahoning Valley Sanitary District**  
*Management's Discussion and Analysis*  
*For the Fiscal Year Ended June 30, 2018*  
*Unaudited*

Table 1 provides a summary of the District's net position for fiscal year 2018 compared to fiscal year 2017:

**Table 1**  
Net Position

	2018	2017	Change
<b>Assets</b>			
Current and Other Assets	\$41,750,800	\$41,802,837	(\$52,037)
Noncurrent Assets:			
Net Pension Asset	31,345	13,168	18,177
Capital Assets, Net	68,699,850	64,434,107	4,265,743
<i>Total Assets</i>	<u>110,481,995</u>	<u>106,250,112</u>	<u>4,231,883</u>
<b>Deferred Outflows of Resources</b>			
Deferred Charge on Refunding	26,596	90,425	(63,829)
Pension	547,775	1,623,877	(1,076,102)
OPEB	154,741	14,038	140,703
<i>Total Deferred Outflows of Resources</i>	<u>729,112</u>	<u>1,728,340</u>	<u>(999,228)</u>
<b>Liabilities</b>			
Current and Other Liabilities	838,802	772,278	(66,524)
Long-Term Liabilities:			
Compensated Absences	586,837	528,970	(57,867)
Net Pension Liability	3,006,461	4,688,356	1,681,895
Net OPEB Liability	2,053,487	2,054,712	1,225
Water Revenue Bonds	2,592,264	5,126,698	2,534,434
OWDA Loans	42,214,649	41,815,738	(398,911)
<i>Total Liabilities</i>	<u>51,292,500</u>	<u>54,986,752</u>	<u>3,694,252</u>
<b>Deferred Inflows of Resources</b>			
Pension	874,168	34,638	(839,530)
OPEB	250,892	0	(250,892)
<i>Total Deferred Inflows of Resources</i>	<u>1,125,060</u>	<u>34,638</u>	<u>(1,090,422)</u>
<b>Net Position</b>			
Net Investment in Capital Assets	23,474,961	17,089,717	6,385,244
Restricted:			
Debt Service	2,696,074	4,172,643	(1,476,569)
Unrestricted	32,622,512	31,694,700	927,812
<i>Total</i>	<u>\$58,793,547</u>	<u>\$52,957,060</u>	<u>\$5,836,487</u>

**Mahoning Valley Sanitary District**  
*Management's Discussion and Analysis*  
*For the Fiscal Year Ended June 30, 2018*  
*Unaudited*

---

The net pension liability (NPL) is reported pursuant to GASB Statement 68, "Accounting and Financial Reporting for Pensions—an Amendment of GASB Statement 27." GASB Statement 75, "Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions," which significantly revises accounting for costs and liabilities related to other postemployment benefits (OPEB) was effective for fiscal year 2018. For reasons discussed below, many end users of this financial statement will gain a clearer understanding of the District's actual financial condition by adding deferred inflows related to pension and OPEB, the net pension liability and the net OPEB liability to the reported net position and subtracting the net pension asset and the deferred outflows related to pension and OPEB.

Governmental Accounting Standards Board standards are national and apply to all government financial reports prepared in accordance with generally accepted accounting principles. Prior accounting for pensions (GASB 27) and postemployment benefits (GASB 45) focused on a funding approach. This approach limited pension and OPEB costs to contributions annually required by law, which may or may not be sufficient to fully fund each plan's *net pension liability* or *net OPEB liability*. GASB 68 and GASB 75 take an earnings approach to pension and OPEB accounting; however, the nature of Ohio's statewide pension/OPEB plans and state law governing those systems requires additional explanation in order to properly understand the information presented in these statements.

GASB 68 and GASB 75 require the net pension liability and the net OPEB liability to equal the District's proportionate share of each plan's collective:

1. Present value of estimated future pension/OPEB benefits attributable to active and inactive employees' past service
2. Minus plan assets available to pay these benefits

GASB notes that pension and OPEB obligations, whether funded or unfunded, are part of the "employment exchange" – that is, the employee is trading his or her labor in exchange for wages, benefits, and the promise of a future pension and other postemployment benefits. GASB noted that the unfunded portion of this promise is a present obligation of the government, part of a bargained-for benefit to the employee, and should accordingly be reported by the government as a liability since they received the benefit of the exchange. However, the District is not responsible for certain key factors affecting the balance of these liabilities. In Ohio, the employee shares the obligation of funding pension benefits with the employer. Both employer and employee contribution rates are capped by State statute. A change in these caps requires action of both Houses of the General Assembly and approval of the Governor. Benefit provisions are also determined by State statute. The Ohio Revised Code permits, but does not require the retirement systems to provide healthcare to eligible benefit recipients. The retirement systems may allocate a portion of the employer contributions to provide for these OPEB benefits.

The employee enters the employment exchange with the knowledge that the employer's promise is limited not by contract but by law. The employer enters the exchange also knowing that there is a specific, legal limit to its contribution to the retirement system. In Ohio, there is no legal means to enforce the unfunded liability of the pension/OPEB plan *as against the public employer*. State law operates to mitigate/lessen the moral obligation of the public employer to the employee, because all parties enter the employment exchange with notice as to the law. The retirement system is responsible for the administration of the pension and OPEB plans.

Most long-term liabilities have set repayment schedules or, in the case of compensated absences (i.e. sick and vacation leave), are satisfied through paid time-off or termination payments. There is no repayment schedule for the net pension liability or the net OPEB liability. As explained previously, changes in

**Mahoning Valley Sanitary District**  
*Management's Discussion and Analysis*  
*For the Fiscal Year Ended June 30, 2018*  
*Unaudited*

benefits, contribution rates, and return on investments affect the balance of these liabilities, but are outside the control of the local government. In the event that contributions, investment returns, and other changes are insufficient to keep up with required payments, State statute does not assign/identify the responsible party for the unfunded portion. Due to the unique nature of how the net pension liability and the net OPEB liability are satisfied, these liabilities are separately identified within the long-term liability section of the statement of net position.

In accordance with GASB 68 and GASB 75, the District's statements prepared on an accrual basis of accounting include an annual pension expense and an annual OPEB expense for their proportionate share of each plan's *change* in net pension liability and net OPEB liability, respectively, not accounted for as deferred inflows/outflows.

As a result of implementing GASB 75, the District is reporting a net OPEB liability and deferred inflows/outflows of resources related to OPEB on the accrual basis of accounting. This implementation also had the effect of restating net position by (\$2,040,674) at June 30, 2017.

There was an increase in capital assets because the District has several major construction projects ongoing as of the fiscal year end, which resulted in a significant increase to construction in progress from the prior fiscal year. There was a decrease in deferred outflows of resources and the net pension liability and an increase in deferred inflows of resources related to the net pension liability from the prior fiscal year. This resulted in an overall increase in net position for the District. Total liabilities decreased from the prior fiscal year due to a decrease in the net pension and OPEB liabilities which was coupled with a decrease in outstanding debt due to an additional year of debt payments.

In order to further understand what makes up the changes in net position for the current year, the following table gives readers further details regarding the results of activities for the current year. Table 2 shows operating revenues, operating expenses, non-operating revenues and expenses and changes in net position for fiscal year 2018. Since this is the first year the District has prepared financial statements following generally accepted accounting principles, revenue and expense comparisons to fiscal year 2017 are not available. In future years, when prior year information is available, a comparative analysis will be presented.

**Table 2**  
Changes in Net Position

	2018
<b>Operating Revenues</b>	
Charges for Services	\$18,024,450
Miscellaneous	589,075
<b>Total Operating Revenues</b>	18,613,525
<b>Operating Expenses</b>	
Personal Services	3,902,045
Supplies and Services	4,186,781
Depreciation	2,573,366
Claims	563,761
Miscellaneous	623,675
<b>Total Operating Expenses</b>	11,849,628
<i>Operating Income (Loss)</i>	<i>\$6,763,897</i>

**Mahoning Valley Sanitary District**  
*Management's Discussion and Analysis*  
*For the Fiscal Year Ended June 30, 2018*  
*Unaudited*

**Table 2**  
 Changes in Net Position (continued)

	2018
<b>Non-Operating Revenues (Expenses)</b>	
Timber Sales	\$100,000
Royalties	34,217
Interest	136,943
Interest and Fiscal Charges	(1,198,570)
<b>Total Non-Operating Revenues (Expenses)</b>	<b>(927,410)</b>
<i>Change in Net Position</i>	5,836,487
<i>Net Position Beginning of Year</i>	52,957,060
<i>Net Position End of Year</i>	<b>\$58,793,547</b>

## Capital Assets and Long-Term Obligations

### *Capital Assets*

At the end of fiscal year 2018, the District had, at cost, \$115,570,260 invested in land, easements, construction in progress, land improvements, buildings and improvements, furniture and equipment, vehicles and infrastructure. That total carries an accumulated depreciation of \$46,870,410.

In fiscal year 2018, the District had increases in construction in progress and buildings and improvements. The District has several major construction projects ongoing as of June 30, 2018. These projects include Valve Replacement Phase III, the Chemical Feed Project, Electrical Duct Bank Replacement Project, Venturi Project and Dam Renovations. For additional information on capital assets, see Note 7 of the notes to the basic financial statements.

### *Long-Term Obligations*

In July 2010, the District issued the Series 2010 Water Refunding Bonds in the amount of \$27,030,000. These bonds were issued for the purpose of currently refunding the outstanding principal amount of the Series 1998 Refunding Bonds and the Series 1999 Refunding Bonds. The remaining principal and premium outstanding as of June 30, 2018 is \$2,592,264.

The District has several loans through the Ohio Water Development Authority (OWDA). As of June 30, 2018, the District has a total outstanding OWDA liability of \$42,214,649. In 2018, new OWDA loans of \$2,721,232 were issued while the District made payments of \$2,322,321.

For additional information on long-term obligations, see Note 11 of the notes to the basic financial statements.

**Mahoning Valley Sanitary District**  
*Management's Discussion and Analysis*  
*For the Fiscal Year Ended June 30, 2018*  
*Unaudited*

---

***Current Financial Related Activities***

The District receives royalties from two gas wells that are located on District property. These wells were put on District property in the 1970's. No other wells have been drilled on District property since that time. Surrounding the District's property are many gas wells, some of which contribute to royalties that are received by the District. District revenues from royalties have remained fairly constant over the last five years but total gross receipts for gas royalties have lessened since reaching a high about seven years ago.

The Mahoning Valley Sanitary District has committed itself to the highest standards of financial excellence for many years. The District has received the Award for Small Government Cash Basis Reports from the Government Finance Officers Association since 2014.

**Contacting the District's Financial Management**

This financial report is designed to provide the reader with a broad overview of the District's financial position, as well as a general understanding of the financial operations of the District. If you have any questions about this report or need additional financial information, contact Rhonda Lucivjansky, Secretary/Treasurer, Mahoning Valley Sanitary District, P.O. Box 4119, Youngstown, OH 44515, telephone 330-652-3614.

**Mahoning Valley Sanitary District**  
*Statement of Net Position*  
*June 30, 2018*

<b>Assets</b>	
<b>Current Assets</b>	
Cash and Cash Equivalents	\$37,342,964
Restricted Assets:	
Cash and Cash Equivalents with Trustee	2,702,524
Receivables:	
Accounts	5,550
Intergovernmental	1,562,134
Materials and Supplies Inventory	115,183
Prepaid Items	<u>22,445</u>
<b>Total Current Assets</b>	<u>41,750,800</u>
<b>Noncurrent Assets</b>	
Net Pension Asset	31,345
Nondepreciable Capital Assets	16,209,175
Depreciable Capital Assets, Net	<u>52,490,675</u>
<b>Total Noncurrent Assets</b>	<u>68,731,195</u>
<b>Total Assets</b>	<u>110,481,995</u>
<b>Deferred Outflows of Resources</b>	
Deferred Charge on Refunding	26,596
Pension	547,775
OPEB	<u>154,741</u>
<b>Total Deferred Outflows of Resources</b>	<u>729,112</u>
<b>Liabilities</b>	
<b>Current Liabilities</b>	
Accounts Payable	215,877
Accrued Wages	39,890
Contracts Payable	217,126
Intergovernmental Payable	36,722
Retainage Payable	287,578
Claims Payable	35,159
Compensated Absences Payable	368,496
Accrued Interest Payable	6,450
Water Revenue Bonds Payable	2,580,000
OWDA Loans Payable	<u>2,061,423</u>
<b>Total Current Liabilities</b>	<u>5,848,721</u>
<b>Long-Term Liabilities (net of current portion)</b>	
Compensated Absences Payable	218,341
Net Pension Liability	3,006,461
Net OPEB Liability	2,053,487
Water Revenue Bonds Payable	12,264
OWDA Loans Payable	<u>40,153,226</u>
<b>Total Long-Term Liabilities</b>	<u>45,443,779</u>
<b>Total Liabilities</b>	<u>51,292,500</u>
<b>Deferred Inflows of Resources</b>	
Pension	874,168
OPEB	<u>250,892</u>
<b>Total Deferred Inflows of Resources</b>	<u>1,125,060</u>
<b>Net Position</b>	
Net Investment in Capital Assets	23,474,961
Restricted for:	
Debt Service	2,696,074
Unrestricted	<u>32,622,512</u>
<b>Total Net Position</b>	<u>\$58,793,547</u>

See accompanying notes to the basic financial statements

**Mahoning Valley Sanitary District**  
*Statement of Revenues,  
Expenses and Changes in Net Position  
For the Fiscal Year Ended June 30, 2018*

<hr/> <hr/>	
<b>Operating Revenues</b>	
Charges for Services	\$18,024,450
Miscellaneous	589,075
	<hr/>
<i>Total Operating Revenues</i>	<i>18,613,525</i>
	<hr/>
<b>Operating Expenses</b>	
Personal Services	3,902,045
Supplies and Services	4,186,781
Depreciation	2,573,366
Claims	563,761
Miscellaneous	623,675
	<hr/>
<i>Total Operating Expenses</i>	<i>11,849,628</i>
	<hr/>
<i>Operating Income (Loss)</i>	<i>6,763,897</i>
	<hr/>
<b>Non-Operating Revenues (Expenses)</b>	
Timber Sales	100,000
Royalties	34,217
Interest	136,943
Interest and Fiscal Charges	(1,198,570)
	<hr/>
<i>Total Non-Operating Revenues (Expenses)</i>	<i>(927,410)</i>
	<hr/>
<i>Change in Net Position</i>	<i>5,836,487</i>
	<hr/>
<i>Net Position Beginning of Year (Restated - See Note 13)</i>	<i>52,957,060</i>
	<hr/>
<i>Net Position End of Year</i>	<i>\$58,793,547</i>
	<hr/> <hr/>

See accompanying notes to the basic financial statements



**Mahoning Valley Sanitary District**  
*Statement of Cash Flows*  
For the Fiscal Year Ended June 30, 2018

<b><i>Increase (Decrease) in Cash and Cash Equivalents</i></b>	
<b>Cash Flows from Operating and Non-Operating Activities</b>	
Cash Received from Customers	\$17,998,542
Cash Received from Timber Sales	100,000
Cash Received from Royalties	34,892
Other Cash Received	592,435
Cash Payments to Employees for Services	(3,509,226)
Cash Payments to Suppliers for Goods and Services	(4,090,758)
Cash Payments for Claims	(548,391)
Other Cash Payments	<u>(626,025)</u>
<i>Net Cash Provided by (Used for)</i> <i>Operating and Non-Operating Activities</i>	<u>9,951,469</u>
<b><i>Cash Flows from Capital and Related Financing Activities</i></b>	
Proceeds of EPA/OWDA Loan	2,721,232
Redemption of Principal - Water Revenue Bonds	(2,505,000)
Interest and Fiscal Charges - Water Revenue Bonds	(114,975)
Redemption of Principal - OWDA Loans	(2,322,321)
Interest and Fiscal Charges - OWDA Loans	(1,055,465)
Acquisition of Capital Assets	<u>(6,886,916)</u>
<i>Net Cash Provided by (Used for)</i> <i>Capital and Related Financing Activities</i>	<u>(10,163,445)</u>
<b>Cash Flows from Investing Activities</b>	
Interest on Investments	<u>136,943</u>
<i>Net Increase (Decrease) in Cash and Cash Equivalents</i>	(75,033)
<i>Cash and Cash Equivalents Beginning of Year</i>	<u>40,120,521</u>
<i>Cash and Cash Equivalents End of Year</i>	<u><u>\$40,045,488</u></u>

(continued)

**Mahoning Valley Sanitary District**  
*Statement of Cash Flows (continued)*  
For the Fiscal Year Ended June 30, 2018

**Reconciliation of Operating Income (Loss) to Net Cash  
Provided by (Used for) Operating and Non-Operating Activities**

Operating Income (Loss)	\$6,763,897
Adjustment:	
Depreciation	2,573,366
Non-Operating Revenues (Expenses):	
Timber Sales	100,000
Royalties	34,892
 (Increase) Decrease in Assets and Deferred Outflows:	
Accounts Receivable	2,503
Intergovernmental Receivable	(25,051)
Materials and Supplies Inventory	(3,499)
Prepaid Items	2,376
Net Pension Asset	(5,717)
Deferred Outflows - Pension	573,986
Deferred Outflows - OPEB	82,662
 Increase (Decrease) in Liabilities and Deferred Inflows:	
Accounts Payable	79,707
Accrued Wages	4,528
Contracts Payable	(6,979)
Compensated Absences Payable	57,867
Intergovernmental Payable	27,968
Claims Payable	15,370
Net Pension Liability	65,388
Net OPEB Liability	111,362
Deferred Inflows - Pension	(418,097)
Deferred Inflows - OPEB	(85,060)
 <i>Total Adjustments</i>	 <u>3,187,572</u>
 <i>Net Cash Provided by (Used for)</i> <i>Operating and Non-Operating Activities</i>	 <u><u>\$9,951,469</u></u>

**Noncash Capital Financing Activities**

At June 30, 2018, the District had contracts payable and retainage payable related to the acquisition of capital assets of \$156,994 and \$287,578, respectively.

At June 30, 2017, the District had contracts payable and retainage payable related to the acquisition of capital assets of \$25,030 and \$467,349, respectively.

See accompanying notes to the basic financial statements

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
*For the Fiscal Year Ended June 30, 2018*

---

**Note 1 - Description of the District and Reporting Entity**

The Mahoning Valley Sanitary District, Trumbull County (the District), is a political subdivision of the State of Ohio and a body corporate created under Section 6115.08 of the Ohio Revised Code (The Sanitary District Act of Ohio) for the purpose of providing a water supply for domestic, municipal and public use to the Cities of Youngstown and Niles and the Village of McDonald.

On February 5, 1998, Substitute House Bill 26 was enacted to amend various sections of the Revised Code. This bill altered the composition and method of appointment of the members of the Board of Directors of the District, limited the compensation paid and benefits provided to board members; required the members of the Board to file financial disclosure statements with the Ohio Ethics Commission, and subjected the District to financial certification requirements prior to expending moneys.

The Board of Directors of the Mahoning Valley Sanitary District is made up of four members. One is appointed by the Mayor of the City of Youngstown, one by the Mayor of the City of Niles, one by the Youngstown City Council, and one by the Niles City Council.

The positions of Secretary and Treasurer were combined on January 15, 1997. The Secretary/Treasurer is the fiscal officer of the District as well as the custodian of the records of the District and its corporate seal.

The Chief Engineer is the superintendent of all the public works and improvements.

In evaluating how to define the District for financial reporting purposes, management has considered all agencies, departments and organizations making up the District and its potential component units consistent with Governmental Accounting Standards Board Statement No. 14, "The Financial Reporting Entity" and Governmental Accounting Standard Board (GASB) Statement No. 61, "The Financial Reporting Entity: Omnibus."

Component units are legally separate organizations for which the District is financially accountable. The District is financially accountable for an organization if the District appoints a voting majority of the organization's governing board and (1) the District is able to significantly influence the programs or services performed or provided by the organization; or (2) the District is legally entitled to or can otherwise access the organization's resources; the District is legally obligated or has otherwise assumed the responsibility to finance the deficits of, or provide financial support to, the organization; or the District is obligated for the debt of the organization. Component units may also include organizations that are fiscally dependent on District in that District approves the budget, the issuance of debt or the levying of taxes. The District has no component units.

**Note 2 - Summary of Significant Accounting Policies**

The financial statements of the Mahoning Valley Sanitary District have been prepared in conformity with generally accepted accounting principles (GAAP) as applied to governmental units. The Governmental Accounting Standards Board (GASB) is the accepted standard-setting body for establishing governmental accounting and financial reporting principles. The more significant of the District's accounting policies are described below.

***Basis of Presentation***

The District's basic financial statements consist of a statement of net position, a statement of revenues, expenses and changes in net position and a statement of cash flows.

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
*For the Fiscal Year Ended June 30, 2018*

---

The District uses enterprise accounting to maintain its financial records during the year. Enterprise accounting focuses on the determination of operating income, change in net position, financial position and cash flows. Enterprise accounting may be used to account for any activity for which a fee is charged to external users for goods or services.

The District uses fund accounting to maintain its financial records during the year. A fund is defined as a fiscal and accounting entity with a self-balancing set of accounts. The operations of the District are reported as a single enterprise fund.

***Measurement Focus***

The enterprise fund is accounted for on a flow of economic resources measurement focus. All assets and deferred outflows of resources and all liabilities and deferred inflows of resources associated with the operation of the District are included on the statement of net position. The statement of changes in net position presents increases (i.e., revenues) and decreases (i.e., expenses) in total net position. The statement of cash flows provides information about how the District finances and meets the cash flow needs of its enterprise activity.

***Basis of Accounting***

Basis of accounting determines when transactions are recorded in the financial records and reported on the financial statements. The District's financial statements are prepared using the accrual basis of accounting. On the accrual basis, revenue is recorded on exchange transactions when the exchange takes place. Nonexchange transactions, in which the District receives value without directly giving equal value in return, include capital contributions. Expenses are recognized at the time they are incurred.

***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. Deferred outflows of resources represent 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. For the District, deferred outflows of resources are reported on the statement of net position for the deferred charges on refunding and for pension and OPEB plans. A deferred charge on refunding results from the difference in the carrying value of refunded debt and its reacquisition price. This amount is deferred and amortized over the shorter of the life of the refunded or refunding debt. The deferred outflows of resources related to pension and OPEB plans are explained in Notes 9 and 10.

In addition to liabilities, the statement of net position reports a separate section for deferred inflows of resources. Deferred inflows of resources represent an acquisition of net position that applies to a future period and will not be recognized until that time. For the District, deferred inflows of resources include pension and OPEB. Deferred inflows of resources related to pension and OPEB plans are reported on the statement of net position (See Notes 9 and 10).

***Pensions/Other Postemployment Benefits (OPEB)***

For purposes of measuring the net pension/OPEB liability, deferred outflows of resources and deferred inflows of resources related to pensions/OPEB, and pension/OPEB expense, information about the fiduciary net position of the pension/OPEB plans and additions to/deductions from their fiduciary net position have been determined on the same basis as they are reported by the pension/OPEB plan. For this purpose, benefit payments (including refunds of employee contributions) are recognized when due and payable in accordance with the benefit terms. The pension/OPEB plans report investments at fair value.

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
*For the Fiscal Year Ended June 30, 2018*

---

***Budgetary Process***

Although the District reports a single enterprise fund, the Ohio Revised Code requires the District to account for its day-to-day activity using a maintenance fund and a bond fund. The maintenance fund accounts for all moneys received as compensation for providing a water supply for domestic, municipal and public use under Section 6115.19, Ohio Revised Code. The bond fund accounts for proceeds of levies made against the special assessments of benefits equalized and confirmed under Section 6115.01 to 6115.79, inclusive, of the Ohio Revised Code. This fund is also used to account for financial resources to be used for the acquisition or construction of major capital facilities or equipment. This fund also receives all operating revenue due from the member Cities of Youngstown and Niles and from the Village of McDonald based on an approved water rate schedule.

The Ohio Revised Code requires that the maintenance fund be budgeted annually. The Mahoning Valley Sanitary District prepares a budget for the maintenance fund and the bond fund.

Budgetary expenses (that is, disbursements and encumbrances) may not exceed appropriations at the fund or function level of control, and appropriations may not exceed estimated resources. Appropriation authority includes current year appropriations plus encumbrances carried over from the prior year (if any). The Board of Directors must annually approve appropriation measures and subsequent amendments. Unencumbered appropriations lapse at year end.

Estimated resources include estimates of cash to be received (budgeted receipts) plus unencumbered cash as of July 1.

The Ohio Revised Code requires the District to reserve (encumber) appropriations when commitments are made. Encumbrances outstanding at year end are carried over and need not be re-appropriated.

***Cash and Cash Equivalents***

The District's cash and cash equivalents are considered to be cash on hand, demand deposits, savings accounts and short-term investments with original maturities of three months or less from the date of acquisition.

During fiscal year 2018, the District's investments were limited to federated treasury money market accounts. The District values investments at fair value. The District classifies investments in money market funds as cash equivalents as they are highly liquid investments and part of the District's cash management activities.

***Restricted Assets***

Assets are reported as restricted when limitations on their use change in nature or normal understanding of the availability of the asset. Such constraints are either imposed by creditors, contributors, grantors or law of other governments or imposed by law through constitutional provisions.

Pursuant to a bond indenture, restricted assets include cash and cash equivalents with a trustee reserved for current and future debt service payments.

***Inventory***

Inventories are presented at cost on a first-in, first-out basis and are expensed when used. Inventory consists of expendable supplies held for consumption.

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
*For the Fiscal Year Ended June 30, 2018*

---

***Prepaid Items***

Payments made to vendors for services that will benefit periods beyond June 30, 2018 are recorded as prepaid items using the consumption method by recording a current asset for the prepaid amount and reflecting the expense in the year in which services are consumed.

***Capital Assets***

All capital assets are capitalized at cost (or estimated historical cost) and updated for additions and retirements during the fiscal year. Donated capital assets are recorded at their acquisition values as of the date received. The District maintains a capitalization threshold of five thousand dollars. Improvements are capitalized; the costs of normal maintenance and repairs that do not add to the value of the asset or materially extend an asset's life are not.

All reported capital assets except land, easements and construction in progress are depreciated. Improvements are depreciated over the remaining useful lives of the related capital assets. Useful lives for infrastructure were estimated based on the District's historical records of necessary improvements and replacement. Depreciation is computed using the straight-line method over the following useful lives:

<u>Description</u>	<u>Governmental Activities Estimated Lives</u>
Land Improvements	20 years
Buildings and Improvements	20 - 40 years
Furniture and Equipment	5 - 10 years
Vehicles	5 years
Infrastructure	25 - 50 years

The District's infrastructure consists of waterlines, the dam and roads within the District's property. All infrastructure acquired by the District since its inception is recorded.

***Compensated Absences***

Vacation benefits are accrued as a liability as the benefits are earned if the employees' rights to receive compensation are attributable to services already rendered and it is probable that the employer will compensate the employees for the benefits through paid time off or some other means. The District records a liability for accumulated unused vacation time when earned for all employees with more than one year of service.

Sick leave benefits are accrued as a liability using the vesting method. The liability includes the employees who are currently eligible to receive termination benefits and those that the District has identified as probable of receiving payment in the future (those employees who will be eligible to receive termination payments in the next twenty years). The amount is based on accumulated sick leave and employee wage rates at year end taking into consideration any limits specified in the District's termination policy.

***Bond Premiums***

On the government-wide financial statements, bond premiums are deferred and amortized over the term of the bonds using the effective-interest method. Bond premiums are presented as an increase of the face amount of the general obligation bonds payable.

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
*For the Fiscal Year Ended June 30, 2018*

---

Under Ohio law, premiums on the original issuance of debt are to be used for debt retirement and are precluded from being applied to project fund costs. Ohio law does allow premiums on refunding debt to be used as part of the payment to the bond escrow agent.

***Deferred Charge on Refunding***

On the government-wide financial statements, the difference between the reacquisition price (funds required to refund the old debt) and the net carrying amount of the old debt, the gain/loss on the refunding, is being amortized as a component of interest expense. The deferred amount is amortized over the life of the old or new debt, whichever is shorter, using the effective interest method and is presented as deferred outflows of resources on the statement of net position.

***Net Position***

Net position represents the difference between all other elements in a statement of financial position. Net investment in capital assets consists of capital assets, net of accumulated depreciation, reduced by the outstanding balances of any borrowings used for the acquisition, construction or improvement of those assets. Net position is reported as restricted when there are limitations imposed on their use through external restrictions imposed by creditors, grantors or laws or regulations of other governments. The District applies restricted resources first when an expense is incurred for purposes for which both restricted and unrestricted net position is available.

***Operating Revenues and Expenses***

Operating revenues are those revenues that are generated directly from the primary activity of the enterprise fund. For the District, these revenues are charges for services and certain revenues collected through the special assessment process. Operating expenses are necessary costs that have been incurred in order to provide the good or service that is the primary activity of the fund. Any revenues and expenses not meeting the definitions of operating are reported as non-operating.

***Estimates***

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the amounts reported in the financial statements and accompanying notes. Actual results may differ from those estimates.

**Note 3 - Deposits and Investments**

Monies held by the District are classified by State statute into three categories.

Active monies are public monies determined to be necessary to meet current demands upon the District treasury. Active monies must be maintained either as cash in the District treasury, in commercial accounts payable or withdrawable on demand, including negotiable order of withdrawal (NOW) accounts, or in money market deposit accounts.

Inactive deposits are public deposits that the Board has identified as not required for use within the current five year period of designation of depositories. Inactive deposits must either be evidenced by certificates of deposit maturing not later than the end of the current period of designation of depositories, or by savings or deposit accounts including, but not limited to, passbook accounts.

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
*For the Fiscal Year Ended June 30, 2018*

---

Interim deposits are deposits of interim monies. Interim monies are those monies which are not needed for immediate use but which will be needed before the end of the current period of designation of depositories. Interim deposits must be evidenced by time certificates of deposit maturing not more than one year from the date of deposit or by savings or deposit accounts, including passbook accounts.

Interim monies held by the District can be deposited or invested in the following securities:

1. United States Treasury bills, bonds, notes, or any other obligation or security issued by the United States Treasury, or any other obligation guaranteed as to principal and interest by the United States;
2. Bonds, notes, debentures, or any other obligation or security issued by any federal government agency or instrumentality including, but not limited to, the Federal National Mortgage Association, Federal Home Loan Bank, Federal Farm Credit Bank, Federal Home Loan Mortgage Corporation, and Government National Mortgage Association. All federal agency securities shall be direct issuances of federal government agencies or instrumentalities;
3. Written repurchase agreements in the securities listed above provided the market value of the securities subject to the repurchase agreement must exceed the principal value of the agreement by at least two percent and be marked to market daily, and the term of the agreement must not exceed thirty days;
4. Bonds and other obligations of the State of Ohio, and with certain limitations bonds and other obligations of political subdivisions of the State of Ohio;
5. Time certificates of deposit or savings or deposit accounts including, but not limited to, passbook accounts;
6. No-load money market mutual funds consisting exclusively of obligations described in division (1) or (2) and repurchase agreements secured by such obligations, provided that investments in securities described in this division are made only through eligible institutions;
7. The State Treasurer's investment pool (STAR Ohio).
8. Certain bankers' acceptances and commercial paper notes for a period not to exceed one hundred eighty days in an amount not to exceed 40 percent of the interim monies available for investment at any one time if training requirements have been met.

Investments in stripped principal or interest obligations, reverse repurchase agreements, and derivatives are prohibited. The issuance of taxable notes for the purpose of arbitrage, the use of leverage, and short selling are also prohibited. An investment must mature within five years from the date of purchase, unless matched to a specific obligation or debt of the District, and must be purchased with the expectation that it will be held to maturity.

Investments may only be made through specified dealers and institutions. Payment for investments may be made only upon delivery of the securities representing the investments to the treasurer or, if the securities are not represented by a certificate, upon receipt of confirmation of transfer from the custodian.



**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
*For the Fiscal Year Ended June 30, 2018*

---

## **Deposits**

***Custodial Credit Risk*** Custodial credit risk for deposits is the risk that in the event of bank failure, the District will not be able to recover deposits or collateral securities that are in possession of an outside party. At June 30, 2018, \$15,176,759 of the District's bank balance of \$37,472,225 was exposed to custodial credit risk because those deposits were uninsured and uncollateralized. The District's financial institution participates in the Ohio Pooled Collateral System (OPCS) and was approved for a reduced collateral floor of 50 percent resulting in the uninsured and uncollateralized balance.

The District has no deposit policy for custodial risk beyond the requirements of State statute. Ohio law requires that deposits be either insured or be protected by:

Eligible securities pledged to the District and deposited with a qualified trustee by the financial institution as security for repayment whose market value at all times shall be at least one hundred five percent of the deposits being secured; or

Participation in the Ohio Pooled Collateral System (OPCS), a collateral pool of eligible securities deposited with a qualified trustee and pledged to the Treasurer of State to secure the repayment of all public monies deposited in the financial institution. OPCS requires the total market value of the securities pledged to be one hundred two percent of the deposits being secured or a rate set by the Treasurer of State.

## **Investments**

The District reports their investments at fair value. As of June 30, 2018, the District had a Level Two input investment in federated treasury money market accounts with a fair value of \$2,702,524 and a maturity of less than one year. The District 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. The District's investments measured at fair value are valued using methodologies that incorporate market inputs such as benchmark yields, reported trades, broker/dealer quotes, issuer spreads, two-sided markets, benchmark securities, bids, offers and reference data including market research publications. Market indicators and industry and economic events are also monitored, which could require the need to acquire further market data. (Level 2 inputs).

***Interest Rate Risk*** As a means of limiting its exposure to fair value losses caused by rising interest rates, the District's investment policy requires that operating funds be invested primarily in short-term investments maturing within five years from the date of purchase and that the District's investment portfolio be structured so that the securities mature to meet cash requirements for ongoing operations and/or long-term debt payments. The stated intent of the policy is to avoid the need to sell securities prior to maturity. To date, no investments have been purchased with a life greater than two years.

***Credit Risk*** The Moody's rating of the District's investment is Aaa. The District has no investment policy that addresses credit risk.

***Concentration of Credit Risk*** The District places no limit on the amount it may invest in any one issuer.

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
*For the Fiscal Year Ended June 30, 2018*

---

**Note 4 - Receivables**

Receivables at June 30, 2018, consisted of charges for services, royalties and Bureau of Workers' Compensation refund. All receivables are considered collectible in full. All receivables are expected to be collected within one year.

A summary of principal items of intergovernmental receivables follows:

	<u>Amount</u>
City of Youngstown Water Billing	\$1,124,311
City of Niles Water Billing	370,310
Bureau of Workers' Compensation Refund	33,905
Village of McDonald Water Billing	<u>33,608</u>
Total	<u><u>\$1,562,134</u></u>

**Note 5 - Compensated Absences**

The criteria for determining vacation and sick leave benefits are derived from negotiated agreements and State laws. Service and maintenance employees and patrolmen earn ten to thirty-five days of vacation per year, depending upon length of service and hours worked. Accumulated unused vacation time is paid to classified employees upon termination of employment. Each employee earns sick leave at a rate of one and one-fourth days per month. Upon retirement or termination after ten years of consecutive service, payment is made for one half of the employee's accrued but unused sick days up to one half of 180 days. The maximum number of days to be paid out is 90 days. For purposes of retirement, the employee receiving such payment must meet the eligibility requirement provisions set by OPERS.

**Note 6 - Contingencies**

***Grants***

The District receives financial assistance from state agencies in the form of grants. The disbursement of funds received under these programs generally requires compliance with terms and conditions specified in the grant agreements and are subject to audit by the grantor agencies. Any disallowed claims resulting from such audits could become a liability of the District's operating fund or any other applicable funds. However, in the opinion of management, any such disallowed claims will not have a material adverse effect on the overall financial position of the District at June 30, 2018.

***Litigation***

The District is a party to legal proceedings. The District is of the opinion that ultimate disposition of claims will not have a material effect, if any, on the financial condition of the District.

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
For the Fiscal Year Ended June 30, 2018

**Note 7 - Capital Assets**

Capital asset activity for the fiscal year ended June 30, 2018, was as follows:

	Balance 6/30/17	Additions	Deletions	Balance 6/30/18
<b>Business-Type Activities</b>				
<i>Capital Assets, not being depreciated:</i>				
Land	\$1,879,335	\$0	\$0	\$1,879,335
Easements	36,908	0	0	36,908
Construction in Progress	8,304,210	5,988,722	0	14,292,932
<b>Total Capital Assets, not being depreciated</b>	<b>10,220,453</b>	<b>5,988,722</b>	<b>0</b>	<b>16,209,175</b>
<i>Capital Assets, being depreciated:</i>				
Land Improvements	452,624	0	0	452,624
Buildings and Improvements	69,321,963	850,387	0	70,172,350
Furniture and Equipment	3,205,510	0	0	3,205,510
Vehicles	611,162	0	0	611,162
Infrastructure	24,919,439	0	0	24,919,439
<b>Total Capital Assets, being depreciated</b>	<b>98,510,698</b>	<b>850,387</b>	<b>0</b>	<b>99,361,085</b>
<i>Less Accumulated Depreciation:</i>				
Land Improvements	(178,548)	(18,867)	0	(197,415)
Buildings and Improvements	(29,345,862)	(1,629,827)	0	(30,975,689)
Furniture and Equipment	(2,226,623)	(125,317)	0	(2,351,940)
Vehicles	(477,803)	(31,879)	0	(509,682)
Infrastructure	(12,068,208)	(767,476)	0	(12,835,684)
<b>Total Accumulated Depreciation</b>	<b>(44,297,044)</b>	<b>(2,573,366)</b>	<b>0</b>	<b>(46,870,410)</b>
<b>Total Capital Assets, being depreciated, net</b>	<b>54,213,654</b>	<b>(1,722,979)</b>	<b>0</b>	<b>52,490,675</b>
<b>Business-Type Activities Capital Assets, Net</b>	<b>\$64,434,107</b>	<b>\$4,265,743</b>	<b>\$0</b>	<b>\$68,699,850</b>

**Note 8 - Risk Management**

**Property and Liability**

The District is exposed to various risks of loss to torts; thefts of, damage to and destruction of assets; errors and omissions; injuries to employees and natural disaster. During fiscal year 2018, the District contracted with Love Insurance for various types of insurance coverage as follows:

Type	Coverage	Deductible
Property/Inland Marine	\$192,250,000	\$10,000
Earthquake	1,000,000	100,000
Flood	1,000,000	100,000
Liability	6,000,000/8,000,000	2,500
Fleet Vehicle		
Physical Damage	50,000	500
Comprehensive	50,000	250

Settled claims have not exceeded this commercial coverage in any of the past three years. There have been no significant reductions in coverage from last year.

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
For the Fiscal Year Ended June 30, 2018

---

***Employee Benefits***

The District provides health insurance to its employees. The District provides these benefits through a partially self-funded medical and drug benefits program. The District provides hospitalization and drug benefit coverage as outlined in the ERISA document provided to all employees which includes the Summary of Benefits and Coverage of our named plan, the Mahoning Valley Sanitary District Employee Benefits Plan. Medical Mutual of Ohio is the medical provider network and Mutual Health Services, Inc. as third party administrator for claims. The District also has a contract with HCC Life Insurance Company; a reinsurer to protect the District against catastrophic illness situations. The District’s monthly premium, which is paid to Mutual Health Services, provides for stop loss coverage and administration of all claims. The District has stop loss coverage set at \$40,000 per member of our plan which includes all employees, their spouses and dependents. The District is responsible for all claims up to that point on all of its covered members. All stop loss premiums and claims are paid from the internal service account of the District and receives its funding from the revenue stream of the District. The hospitalization budget is established at July 1 of each fiscal year.

The claims liability of \$35,159 reported at June 30, 2018, is based on an estimate provided by the Treasurer and the requirements of Governmental Accounting Standards Board Statement No. 30 which requires that a liability for unpaid claims costs, including estimates of costs relating to incurred but not reported claims, be reported. The estimate was not affected by incremental claim adjustment expenses and does not include other allocated or unallocated claim adjustment expenses.

Changes in the fund’s claims liability amount follows (2017 is unavailable in the current fiscal year):

	Balance at Beginning of Year	Current Year Claims	Claim Payments	Balance at End of Year
2018	\$19,789	\$563,761	\$548,391	\$35,159

The average monthly cost per covered employee for stop loss protection and administration of claims is \$419. The yearly premium for stop loss coverage and claims administration is \$246,322.

Workers’ compensation is provided by the State. The District pays the State Workers’ Compensation System a premium based on a rate per \$100 of salaries. This rate is calculated based on accident history and administrative costs.

**Note 9 – Defined Benefit Pension Plans**

The Statewide retirement systems provide both pension benefits and other postemployment benefits (OPEB).

***Net Pension Liability/Net OPEB Liability***

The net pension liability and the net OPEB liability reported on the statement of net position represent liabilities to employees for pensions and OPEB, respectively. Pensions/OPEB are a component of exchange transactions—between an employer and its employees—of salaries and benefits for employee services. Pensions/OPEB are provided to an employee—on a deferred-payment basis—as part of the total compensation package offered by an employer for employee services each financial period. The obligation to sacrifice resources for pensions is a present obligation because it was created as a result of employment exchanges that already have occurred.

The net pension/OPEB liability represent the District’s proportionate share of each pension/OPEB plan’s collective actuarial present value of projected benefit payments attributable to past periods of service, net of each pension/OPEB plan’s fiduciary net position. The net pension/OPEB liability calculation is dependent on

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
*For the Fiscal Year Ended June 30, 2018*

---

critical long-term variables, including estimated average life expectancies, earnings on investments, cost of living adjustments and others. While these estimates use the best information available, unknowable future events require adjusting these estimates annually.

Ohio Revised Code limits the District's obligation for this liability to annually required payments. The District cannot control benefit terms or the manner in which pensions are financed; however, the District does receive the benefit of employees' services in exchange for compensation including pension and OPEB.

GASB 68/75 assumes the liability is solely the obligation of the employer, because (1) they benefit from employee services; and (2) State statute requires funding to come from these employers. All pension contributions to date have come solely from these employers (which also includes pension costs paid in the form of withholdings from employees). The retirement systems may allocate a portion of the employer contributions to provide for these OPEB benefits. In addition, health care plan enrollees pay a portion of the health care costs in the form of a monthly premium. State statute requires the retirement systems to amortize unfunded pension liabilities within 30 years. If the pension amortization period exceeds 30 years, each retirement system's board must propose corrective action to the State legislature. Any resulting legislative change to benefits or funding could significantly affect the net pension/OPEB liability. Resulting adjustments to the net pension/OPEB liability would be effective when the changes are legally enforceable. The Ohio Revised Code permits, but does not require the retirement systems to provide healthcare to eligible benefit recipients.

The proportionate share of each plan's unfunded benefits is presented as a long-term *net pension/OPEB liability* on the accrual basis of accounting. Any liability for the contractually-required pension/OPEB contribution outstanding at the end of the year is included in *intergovernmental payable* on both the accrual and modified accrual bases of accounting. The remainder of this note includes the required pension disclosures. See Note 10 for the required OPEB disclosures.

***Plan Description – Ohio Public Employees Retirement System (OPERS)***

Plan Description - District employees participate in the Ohio Public Employees Retirement System (OPERS). OPERS administers three separate pension plans. The traditional pension plan is a cost-sharing, multiple-employer defined benefit pension plan. The member-directed plan is a defined contribution plan and the combined plan is a combination cost-sharing, multiple-employer defined benefit/defined contribution pension plan.

OPERS provides retirement, disability, survivor and death benefits, and annual cost of living adjustments to members of the traditional and combined plans. Authority to establish and amend benefits is provided by Chapter 145 of the Ohio Revised Code. OPERS issues a stand-alone financial report that includes financial statements, required supplementary information and detailed information about OPERS' fiduciary net position that may be obtained by visiting <https://www.opers.org/financial/reports.shtml>, by writing to the Ohio Public Employees Retirement System, 277 East Town Street, Columbus, Ohio 43215-4642, or by calling 800-222-7377.

Senate Bill (SB) 343 was enacted into law with an effective date of January 7, 2013. In the legislation, members in the traditional and combined plans were categorized into three groups with varying provisions of the law applicable to each group. The following table provides age and service requirements for retirement and the retirement formula applied to final average salary (FAS) for the three member groups under the traditional and combined plans as per the reduced benefits adopted by SB 343 (see OPERS CAFR referenced above for additional information, including requirements for reduced and unreduced benefits):

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
*For the Fiscal Year Ended June 30, 2018*

<b>Group A</b>	<b>Group B</b>	<b>Group C</b>
Eligible to retire prior to January 7, 2013 or five years after January 7, 2013	20 years of service credit prior to January 7, 2013 or eligible to retire ten years after January 7, 2013	Members not in other Groups and members hired on or after January 7, 2013
<b>State and Local</b>	<b>State and Local</b>	<b>State and Local</b>
<b>Age and Service Requirements:</b> Age 60 with 60 months of service credit or Age 55 with 25 years of service credit	<b>Age and Service Requirements:</b> Age 60 with 60 months of service credit or Age 55 with 25 years of service credit	<b>Age and Service Requirements:</b> Age 57 with 25 years of service credit or Age 62 with 5 years of service credit
<b>Traditional Plan Formula:</b> 2.2% of FAS multiplied by years of service for the first 30 years and 2.5% for service years in excess of 30	<b>Traditional Plan Formula:</b> 2.2% of FAS multiplied by years of service for the first 30 years and 2.5% for service years in excess of 30	<b>Traditional Plan Formula:</b> 2.2% of FAS multiplied by years of service for the first 35 years and 2.5% for service years in excess of 35
<b>Combined Plan Formula:</b> 1% of FAS multiplied by years of service for the first 30 years and 1.25% for service years in excess of 30	<b>Combined Plan Formula:</b> 1% of FAS multiplied by years of service for the first 30 years and 1.25% for service years in excess of 30	<b>Combined Plan Formula:</b> 1% of FAS multiplied by years of service for the first 35 years and 1.25% for service years in excess of 35

Final average Salary (FAS) represents the average of the three highest years of earnings over a member's career for Groups A and B. Group C is based on the average of the five highest years of earnings over a member's career.

Members who retire before meeting the age and years of service credit requirement for unreduced benefits receive a percentage reduction in the benefit amount.

When a traditional plan benefit recipient has received benefits for 12 months, an annual cost of living adjustment (COLA) is provided. This COLA is calculated on the base retirement benefit at the date of retirement and is not compounded. Members retiring under the combined plan receive a cost-of-living adjustment of the defined benefit portion of their pension benefit. For those retiring prior to January 7, 2013, the COLA will continue to be a 3 percent simple annual COLA. For those retiring subsequent to January 7, 2013, beginning in calendar year 2019, the COLA will be based on the average percentage increase in the Consumer Price Index, capped at 3 percent.

Defined contribution plan benefits are established in the plan documents, which may be amended by the Board. Member-directed plan and combined plan members who have met the retirement eligibility requirements may apply for retirement benefits. The amount available for defined contribution benefits in the combined plan consists of the member's contributions plus or minus the investment gains or losses resulting from the member's investment selections. Combined plan members wishing to receive benefits must meet the requirements for both the defined benefit and defined contribution plans. Member-directed participants must have attained the age of 55, have money on deposit in the defined contribution plan and have terminated public service to apply for retirement benefits. The amount available for defined contribution benefits in the member-directed plan consists of the members' contributions, vested employer contributions and investment gains or losses resulting from the members' investment selections. Employer contributions and associated investment earnings vest over a five-year period, at a rate of 20 percent each year. At retirement, members may select one of several distribution options for payment of the vested balance in their individual OPERS accounts. Options include the purchase of a monthly defined benefit annuity from OPERS (which includes joint and survivor options), partial lump-sum payments (subject to limitations), a rollover of the vested account balance to another financial institution, receipt of entire account balance, net of taxes withheld, or a combination of these options.

Funding Policy - The Ohio Revised Code (ORC) provides statutory authority for member and employer contributions as follows:

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
*For the Fiscal Year Ended June 30, 2018*

---

	State and Local
<b>FY 2018 Statutory Maximum Contribution Rates</b>	
Employer	14.0 %
Employee *	10.0 %
 <b>FY 2018 Actual Contribution Rates</b>	
Employer (July 1, 2017 - December 31, 2017):	
Pension	13.0 %
Post-employment Health Care Benefits **	1.0
Total Employer	14.0 %
 Employer (Effective January 1, 2018):	
Pension	14.0 %
Post-employment Health Care Benefits **	0.0
Total Employer	14.0 %
 Employee	 10.0 %

- \* Member contributions within the combined plan are not used to fund the defined benefit retirement allowance.
- \*\* This employer health care rate is for the traditional and combined plans. The employer contribution for the member-directed plan is 4 percent.

Employer contribution rates are actuarially determined and are expressed as a percentage of covered payroll. For fiscal year 2018, The District's contractually required contribution was \$341,627 for the traditional plan, \$12,966 for the combined plan and \$4,698 for the member-directed plan. Of these amounts, \$8,084 is reported as an intergovernmental payable for the traditional plan, \$308 for the combined plan, and \$416 for the member-directed plan.

***Pension Liabilities, Pension Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions***

The net pension liability for OPERS was measured as of December 31, 2017, and the total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of that date. The District's proportion of the net pension liability was based on the District's share of contributions to the pension plan relative to the contributions of all participating entities. Following is information related to the proportionate share and pension expense:

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
For the Fiscal Year Ended June 30, 2018

	OPERS <u>Traditional Plan</u>	OPERS <u>Combined Plan</u>	<u>Total</u>
Proportion of the Net Pension Liability/Asset:			
Current Measurement Date	0.01916400%	0.02302500%	
Prior Measurement Date	<u>0.02064600%</u>	<u>0.02366100%</u>	
Change in Proportionate Share	<u>-0.00148200%</u>	<u>-0.00063600%</u>	
Proportionate Share of the			
Net Pension Liability	\$3,006,461	\$0	\$3,006,461
Net Pension Asset	0	31,345	31,345
Pension Expense	565,147	5,006	570,153

Fiscal year 2018 pension expense for the member-directed defined contribution plan was \$4,698.

At June 30, 2018, the District reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	OPERS <u>Traditional Plan</u>	OPERS <u>Combined Plan</u>	<u>Total</u>
<b>Deferred Outflows of Resources</b>			
Differences between expected and actual experience	\$3,071	\$0	\$3,071
Changes of assumptions	359,292	2,739	362,031
Changes in proportion and differences between District contributions and proportionate share of contributions	0	308	308
District contributions subsequent to the measurement date	<u>175,671</u>	<u>6,694</u>	<u>182,365</u>
Total Deferred Outflows of Resources	<u>\$538,034</u>	<u>\$9,741</u>	<u>\$547,775</u>
<b>Deferred Inflows of Resources</b>			
Differences between expected and actual experience	\$59,248	\$9,338	\$68,586
Net difference between projected and actual earnings on pension plan investments	645,447	4,945	650,392
Changes in proportion and differences between District contributions and proportionate share of contributions	<u>155,190</u>	<u>0</u>	<u>155,190</u>
Total Deferred Inflows of Resources	<u>\$859,885</u>	<u>\$14,283</u>	<u>\$874,168</u>

\$182,365 reported as deferred outflows of resources related to pension resulting from District contributions subsequent to the measurement date will be recognized as a reduction of the net pension liability in the fiscal year ending June 30, 2019. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to pension will be recognized in pension expense as follows:



**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
For the Fiscal Year Ended June 30, 2018

	OPERS Traditional Plan	OPERS Combined Plan	Total
Fiscal Year Ending June 30:			
2019	\$189,900	(\$1,536)	\$188,364
2020	(137,977)	300	(137,677)
2021	(284,221)	(3,163)	(287,384)
2022	(265,224)	(6,997)	(272,221)
2023	0	37	37
Thereafter	0	123	123
Total	(\$497,522)	(\$11,236)	(\$508,758)

**Actuarial Assumptions - OPERS**

Actuarial valuations of an ongoing plan involve estimates of the values of reported amounts and assumptions about the probability of occurrence of events far into the future. Examples include assumptions about future employment, mortality, and cost trends. Actuarially determined amounts are subject to continual review or modification as actual results are compared with past expectations and new estimates are made about the future.

Projections of benefits for financial reporting purposes are based on the substantive plan (the plan as understood by the employers and plan members) and include the types of benefits provided at the time of each valuation. The total pension liability was determined by an actuarial valuation as of December 31, 2017, using the following actuarial assumptions applied to all periods included in the measurement in accordance with the requirements of GASB 67. Key methods and assumptions used in the latest actuarial valuation, reflecting experience study results, prepared as of December 31, 2017, are presented below.

	OPERS Traditional Plan	OPERS Combined Plan
Wage Inflation	3.25 percent	3.25 percent
Future Salary Increases, including inflation	3.25 to 10.75 percent including wage inflation	3.25 to 8.25 percent including wage inflation
COLA or Ad Hoc COLA:		
Pre-January 7, 2013 Retirees	3 percent, simple	3 percent, simple
Post-January 7, 2013 Retirees	3 percent, simple through 2018, then 2.15 percent, simple	3 percent, simple through 2018, then 2.15 percent, simple
Investment Rate of Return	7.5 percent	7.5 percent
Actuarial Cost Method	Individual Entry Age	Individual Entry Age

Pre-retirement mortality rates are based on the RP-2014 Employees mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. The base year for males and females was then established to be 2015 and 2010, respectively. Post-retirement mortality rates are based on the RP-2014 Healthy Annuitant mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. The base year for males and females was then established to be 2015 and 2010, respectively. Post-retirement mortality rates for disabled retirees are based on the RP-2014 Disabled mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. The base year for males and females was then established to be 2015 and 2010, respectively. Mortality rates for a particular calendar year are determined by applying the MP-2015 mortality improvement scale to all of the above described tables.

The most recent experience study was completed for the five year period ended December 31, 2015.

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
For the Fiscal Year Ended June 30, 2018

The long-term rate of return on defined benefit investment assets was determined using a building-block method in which best-estimate ranges of expected future real rates of return are developed for each major asset class. These ranges are combined to produce the long-term expected real rate of return by weighting the expected future real rates of return by the target asset allocation percentage, adjusted for inflation.

During 2017, OPERS managed investments in three investment portfolios: the Defined Benefit portfolio, the Health Care portfolio, and the Defined Contribution portfolio. The Defined Benefit portfolio contains the investment assets for the Traditional Pension Plan, the defined benefit component of the Combined Plan and the annuitized accounts of the Member-Directed Plan. Within the Defined Benefit portfolio, contributions into the plans are all recorded at the same time, and benefit payments all occur on the first of the month. Accordingly, the money-weighted rate of return is considered to be the same for all plans within the portfolio. The annual money-weighted rate of return expressing investment performance, net of investment expenses and adjusted for the changing amounts actually invested, for the Defined Benefit portfolio was 16.82 percent for 2017.

The allocation of investment assets with the Defined Benefit portfolio is approved by the Board of Trustees as outlined in the annual investment plan. Plan assets are managed on a total return basis with a long-term objective of achieving and maintaining a fully funded status for the benefits provided through the defined benefit pension plans. The table below displays the Board-approved asset allocation policy for 2017 and the long-term expected real rates of return:

<u>Asset Class</u>	<u>Target Allocation</u>	<u>Weighted Average Long-Term Expected Real Rate of Return (Arithmetic)</u>
Fixed Income	23.00 %	2.20 %
Domestic Equities	19.00	6.37
Real Estate	10.00	5.26
Private Equity	10.00	8.97
International Equities	20.00	7.88
Other investments	18.00	5.26
Total	<u>100.00 %</u>	<u>5.66 %</u>

**Discount Rate** The discount rate used to measure the total pension liability was 7.5 percent for the traditional plan and the combined plan. The projection of cash flows used to determine the discount rate assumed that contributions from plan members and those of the contributing employers are made at the contractually required rates, as actuarially determined. Based on those assumptions, the pension plan’s fiduciary net position was projected to be available to make all projected future benefits payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability. In October 2018, the OPERS Board voted to lower the investment return assumption for its defined benefit fund from 7.5 percent to 7.2 percent. This assumption change will impact OPERS annual actuarial valuation prepared as of December 31, 2018.

**Sensitivity of the District’s Proportionate Share of the Net Pension Liability to Changes in the Discount Rate** The following table presents the District’s proportionate share of the net pension liability calculated using the current period discount rate assumption of 7.5 percent, as well as what the District’s proportionate share of the net pension liability would be if it were calculated using a discount rate that is one-percentage-point lower (6.5 percent) or one-percentage-point higher (8.5 percent) than the current rate:

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
*For the Fiscal Year Ended June 30, 2018*

<b>District's proportionate share of the net pension liability (asset)</b>	<u>1% Decrease (6.50%)</u>	<u>Discount Rate (7.50%)</u>	<u>1% Increase (8.50%)</u>
OPERS Traditional Plan	\$5,338,707	\$3,006,461	\$1,062,069
OPERS Combined Plan	(17,039)	(31,345)	(41,215)

**Note 10 - Defined Benefit OPEB Plans**

See Note 9 for a description of the net OPEB liability

***Plan Description – Ohio Public Employees Retirement System (OPERS)***

Plan Description - The Ohio Public Employees Retirement System (OPERS) administers three separate pension plans: the traditional pension plan, a cost-sharing, multiple-employer defined benefit pension plan; the member-directed plan, a defined contribution plan; and the combined plan, a cost-sharing, multiple-employer defined benefit pension plan that has elements of both a defined benefit and defined contribution plan.

OPERS maintains a cost-sharing, multiple-employer defined benefit post-employment health care trust, which funds multiple health care plans including medical coverage, prescription drug coverage and deposits to a Health Reimbursement Arrangement to qualifying benefit recipients of both the traditional pension and the combined plans. This trust is also used to fund health care for member-directed plan participants, in the form of a Retiree Medical Account (RMA). At retirement or refund, member directed plan participants may be eligible for reimbursement of qualified medical expenses from their vested RMA balance.

In order to qualify for postemployment health care coverage, age and service retirees under the traditional pension and combined plans must have twenty or more years of qualifying Ohio service credit. Health care coverage for disability benefit recipients and qualified survivor benefit recipients is available. The health care coverage provided by OPERS meets the definition of an Other Post Employment Benefit (OPEB) as described in GASB Statement 75. See OPERS' CAFR referenced below for additional information.

The Ohio Revised Code permits, but does not require OPERS to provide health care to its eligible benefit recipients. Authority to establish and amend health care coverage is provided to the Board in Chapter 145 of the Ohio Revised Code.

Disclosures for the health care plan are presented separately in the OPERS financial report. Interested parties may obtain a copy by visiting <https://www.opers.org/financial/reports.shtml>, by writing to OPERS, 277 East Town Street, Columbus, Ohio 43215-4642, or by calling (614) 222-5601 or 800-222-7377.

Funding Policy - The Ohio Revised Code provides the statutory authority requiring public employers to fund postemployment health care through their contributions to OPERS. A portion of each employer's contribution to OPERS is set aside to fund OPERS health care plans.

Employer contribution rates are expressed as a percentage of the earnable salary of active members. In fiscal year 2018, state and local employers contributed at a rate of 14.0 percent of earnable salary and public safety and law enforcement employers contributed at 18.1 percent. These are the maximum employer contribution rates permitted by the Ohio Revised Code. Active member contributions do not fund health care.

Each year, the OPERS Board determines the portion of the employer contribution rate that will be set aside to fund health care plans. The portion of employer contributions allocated to health care for members in the Traditional Pension Plan and Combined Plan was 1.0 percent during calendar year 2017. As recommended by OPERS' actuary, the portion of employer contributions allocated to health care beginning January 1, 2018

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
For the Fiscal Year Ended June 30, 2018

decreased to 0 percent for both plans. The OPERS Board is also authorized to establish rules for the retiree or their surviving beneficiaries to pay a portion of the health care provided. Payment amounts vary depending on the number of covered dependents and the coverage selected. The employer contribution as a percentage of covered payroll deposited into the RMA for participants in the Member-Directed Plan for 2017 was 4.0 percent.

Employer contribution rates are actuarially determined and are expressed as a percentage of covered payroll. The District's contractually required contribution was \$17,946 for fiscal year 2018. Of this amount, \$167 is reported as an intergovernmental payable.

***OPEB Liabilities, OPEB Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to OPEB***

The net OPEB liability and total OPEB liability for OPERS were determined by an actuarial valuation as of December 31, 2016, rolled forward to the measurement date of December 31, 2017, by incorporating the expected value of health care cost accruals, the actual health care payment, and interest accruals during the year. The District's proportion of the net pension liability was based on the District's share of contributions to the retirement plan relative to the contributions of all participating entities. Following is information related to the proportionate share and pension expense:

	OPERS
Proportion of the Net OPEB Liability:	
Current Measurement Date	0.01891000%
Prior Measurement Date	0.02034300%
Change in Proportionate Share	-0.00143300%
Proportionate Share of the Net OPEB Liability	\$2,053,487
OPEB Expense	\$126,910

At June 30, 2018, the District reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	OPERS
<b>Deferred Outflows of Resources</b>	
Differences between expected and actual experience	\$1,600
Changes of assumptions	149,516
District contributions subsequent to the measurement date	3,625
Total Deferred Outflows of Resources	\$154,741
<b>Deferred Inflows of Resources</b>	
Net difference between projected and actual earnings on OPEB plan investments	\$152,971
Changes in proportion and differences between District contributions and proportionate share of contributions	97,921
Total Deferred Inflows of Resources	\$250,892

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
*For the Fiscal Year Ended June 30, 2018*

\$3,625 reported as deferred outflows of resources related to pension resulting from District contributions subsequent to the measurement date will be recognized as a reduction of the net pension liability in the fiscal year ending June 30, 2019. Amounts reported as deferred outflows of resources and deferred inflows of resources related to pension will be recognized in pension expense as follows:

	OPERS
Fiscal Year Ending June 30:	
2019	(\$12,811)
2020	(12,811)
2021	(35,912)
2022	(38,242)
Total	(\$99,776)

***Actuarial Assumptions - OPERS***

Actuarial valuations of an ongoing plan involve estimates of the values of reported amounts and assumptions about the probability of occurrence of events far into the future. Examples include assumptions about future employment, mortality, and cost trends. Actuarially determined amounts are subject to continual review or modification as actual results are compared with past expectations and new estimates are made about the future.

Projections of benefits for financial reporting purposes are based on the substantive plan and include the types of coverage provided at the time of each valuation and the historical pattern of sharing of costs between OPERS and plan members. The total OPEB liability was determined by an actuarial valuation as of December 31, 2016, rolled forward to the measurement date of December 31, 2017. The actuarial valuation used the following actuarial assumptions applied to all prior periods included in the measurement in accordance with the requirements of GASB 74:

Wage Inflation	3.25 percent
Projected Salary Increases, including inflation	3.25 to 10.75 percent including wage inflation
Single Discount Rate	3.85 percent
Investment Rate of Return	6.50 percent
Municipal Bond Rate	3.31 percent
Health Care Cost Trend Rate	7.5 percent, initial 3.25 percent, ultimate in 2028
Actuarial Cost Method	Individual Entry Age

Pre-retirement mortality rates are based on the RP-2014 Employees mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. The base year for males and females was then established to be 2015 and 2010, respectively. Post-retirement mortality rates are based on the RP-2014 Healthy Annuitant mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. The base year for males and females was then established to be 2015 and 2010, respectively. Post-retirement mortality rates for disabled retirees are based on the RP-2014 Disabled mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. The base year for males and females was then established to be 2015 and 2010, respectively. Mortality rates for a particular calendar year are determined by applying the MP-2015 mortality improvement scale to all of the above described tables.

The most recent experience study was completed for the five year period ended December 31, 2015.

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
For the Fiscal Year Ended June 30, 2018

The long-term expected rate of return on health care investment assets was determined using a building-block method in which best-estimate ranges of expected future real rates of return are developed for each major asset class. These ranges are combined to produce the long-term expected real rate of return by weighting the expected future real rates of return by the target asset allocation percentage, adjusted for inflation.

During 2017, OPERS managed investments in three investment portfolios: the Defined Benefit portfolio, the Health Care portfolio and the Defined Contribution portfolio. The Health Care portfolio includes the assets for health care expenses for the Traditional Pension Plan, Combined Plan and Member-Directed Plan eligible members. Within the Health Care portfolio, contributions into the plans are assumed to be received continuously throughout the year based on the actual payroll payable at the time contributions are made, and health care-related payments are assumed to occur mid-year. Accordingly, the money-weighted rate of return is considered to be the same for all plans within the portfolio. The annual money-weighted rate of return expressing investment performance, net of investment expenses and adjusted for the changing amounts actually invested, for the Health Care portfolio is 15.2 percent for 2017.

The allocation of investment assets with the Health Care portfolio is approved by the Board of Trustees as outlined in the annual investment plan. Assets are managed on a total return basis with a long-term objective of continuing to offer a sustainable health care program for current and future retirees. OPERS' primary goal is to achieve and maintain a fully funded status for the benefits provided through the defined pension plans. Health care is a discretionary benefit. The table below displays the Board-approved asset allocation policy for 2017 and the long-term expected real rates of return:

<u>Asset Class</u>	<u>Target Allocation</u>	<u>Weighted Average Long-Term Expected Real Rate of Return (Arithmetic)</u>
Fixed Income	34.00 %	1.88 %
Domestic Equities	21.00	6.37
Real Estate Investment Trust	6.00	5.91
International Equities	22.00	7.88
Other investments	17.00	5.39
Total	<u>100.00 %</u>	<u>4.98 %</u>

**Discount Rate** A single discount rate of 3.85 percent was used to measure the OPEB liability on the measurement date of December 31, 2017. A single discount rate of 4.23 percent was used to measure the OPEB liability on the measurement date of December 31, 2016. Projected benefit payments are required to be discounted to their actuarial present value using a single discount rate that reflects (1) a long-term expected rate of return on OPEB plan investments (to the extent that the health care fiduciary net position is projected to be sufficient to pay benefits), and (2) tax-exempt municipal bond rate based on an index of 20-year general obligation bonds with an average AA credit rating as of the measurement date (to the extent that the contributions for use with the long-term expected rate are not met). This single discount rate was based on an expected rate of return on the health care investment portfolio of 6.50 percent and a municipal bond rate of 3.31 percent. The projection of cash flows used to determine this single discount rate assumed that employer contributions will be made at rates equal to the actuarially determined contribution rate. Based on these assumptions, the health care fiduciary net position and future contributions were sufficient to finance health care costs through 2034. As a result, the long-term expected rate of return on health care investments was applied to projected costs through the year 2034, and the municipal bond rate was applied to all health care costs after that date. In October 2018, the OPERS Board voted to lower the investment return assumption for its health care investment portfolio from 6.5 percent to 6 percent. This assumption change will impact OPERS annual actuarial valuation prepared as of December 31, 2018.

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
For the Fiscal Year Ended June 30, 2018

***Sensitivity of the District's Proportionate Share of the Net OPEB Liability to Changes in the Discount Rate***

The following table presents the District's proportionate share of the net OPEB liability calculated using the single discount rate of 3.85 percent, as well as what the District's proportionate share of the net OPEB liability would be if it were calculated using a discount rate that is one-percentage-point lower (2.85 percent) or one-percentage-point higher (4.85 percent) than the current rate:

	1% Decrease (2.85%)	Current Discount Rate (3.85%)	1% Increase (4.85%)
District's proportionate share of the net OPEB liability	\$2,728,146	\$2,053,487	\$1,507,694

***Sensitivity of the District's Proportionate Share of the Net OPEB Liability to Changes in the Health Care***

***Cost Trend Rate*** Changes in the health care cost trend rate may also have a significant impact on the net OPEB liability. The following table presents the net OPEB liability calculated using the assumed trend rates, and the expected net OPEB liability if it were calculated using a health care cost trend rate that is 1.0 percent lower or 1.0 percent higher than the current rate.

Retiree health care valuations use a health care cost-trend assumption that changes over several years built into the assumption. The near-term rates reflect increases in the current cost of health care; the trend starting in 2018 is 7.50 percent. If this trend continues for future years, the projection indicates that years from now virtually all expenditures will be for health care. A more reasonable alternative is that in the not-too-distant future, the health plan cost trend will decrease to a level at, or near, wage inflation. On this basis, the actuaries project premium rate increases will continue to exceed wage inflation for approximately the next decade, but by less each year, until leveling off at an ultimate rate, assumed to be 3.25 percent in the most recent valuation.

	1% Decrease	Current Health Care Cost Trend Rate Assumption	1% Increase
District's proportionate share of the net OPEB liability	\$1,964,749	\$2,053,487	\$2,145,150

**Note 11 - Long Term Obligations**

The original issue date, interest rate, original issue amount and date of maturity of each of the District's long-term obligations follows:

Debt Issue	Interest Rate	Original Issue	Fiscal Year of Maturity
<b>Business-Type Activities</b>			
<i>Water Revenue Bonds</i>			
Series 2010, Refunding	2.0 - 3.0%	\$27,030,000	2019
<i>OWDA Loans</i>			
Filter System Improvement	3.35%	7,105,074	2026
Niles Standpipe Replacement	3.25%	1,298,746	2027
Chemical Feed Building Roof	3.25%	1,609,624	2027
Administration and Filter Building Roof	4.47%	302,790	2028
WTP Lagoon Maintenance	3.36%	1,595,250	2018
Valve Replacement/Gate House	0.00%	2,488,513	2031

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
For the Fiscal Year Ended June 30, 2018

Debt Issue	Interest Rate	Original Issue	Fiscal Year of Maturity
<b>Business-Type Activities (continued)</b>			
<i>OWDA Loans (continued)</i>			
Solids Contact Clarifier/Recarbonation	3.99%	\$14,327,587	2033
Solid Clarifiers/Recarbonation	2.00%	8,000,000	2033
Phase II Valve/Pipeline Replacement	2.00%	4,326,310	2037
Berlin Pump Station Improvements	2.00%	2,364,846	2037
SCADA/Instrumentation Improvements	2.94%	611,719	2036
SCADA/Enhanced Security Improvements	4.32%	3,202,817	2036
Dam/Spillway Improvement Design	4.45%	362,614	n/a
Chemical Feed Systems	0.81%	2,575,037	n/a
Phase III Valve/Main Replacement	0.81%	6,408,951	n/a

The changes in the District's long-term obligations during the year consist of the following:

	Principal Outstanding 6/30/17	Additions	(Reductions)	Principal Outstanding 6/30/18	Amount Due in One Year
<b>Business-Type Activities:</b>					
<i>Water Revenue Bonds</i>					
Series 2010, Refunding	\$5,085,000	\$0	(\$2,505,000)	\$2,580,000	\$2,580,000
Premium	41,698	0	(29,434)	12,264	0
<i>Total Revenue Bonds</i>	<u>5,126,698</u>	<u>0</u>	<u>(2,534,434)</u>	<u>2,592,264</u>	<u>2,580,000</u>
<i>OWDA Loans</i>					
Filter Systems Improvement	3,600,831	0	(372,782)	3,228,049	385,375
Niles Standpipe Replacement	753,151	0	(64,866)	688,285	66,991
Chemical Feed Building Roof	933,431	0	(80,393)	853,038	83,027
Administration and Filter Building Roof	191,573	0	(14,658)	176,915	15,321
WTP Lagoon Maintenance	184,485	0	(184,485)	0	0
Valve Replacement/Gate House	1,679,747	0	(124,426)	1,555,321	124,426
Solids Contact Clarifier/Recarbonation	12,011,711	0	(572,985)	11,438,726	596,075
Solid Clarifiers/Recarbonation	6,466,889	0	(359,741)	6,107,148	366,972
Phase II Valve/Pipeline Replacement	4,237,813	0	(179,658)	4,058,155	183,270
Berlin Pump Station Improvements	2,316,472	0	(98,205)	2,218,267	100,179
SCADA/Instrumentation Improvements	577,184	0	(23,877)	553,307	24,585
SCADA/Enhanced Security Improvements	3,045,843	0	(110,382)	2,935,461	115,202
Dam/Spillway Improvement Design	320,717	12,859	(16,758)	316,818	0
Chemical Feed Systems	2,055,923	69,390	(119,105)	2,006,208	0
Phase III Valve/Main Replacement	3,439,968	2,638,983	0	6,078,951	0
<i>Total OWDA Loans</i>	<u>\$41,815,738</u>	<u>\$2,721,232</u>	<u>(\$2,322,321)</u>	<u>\$42,214,649</u>	<u>\$2,061,423</u>



**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
For the Fiscal Year Ended June 30, 2018

	Principal Outstanding 6/30/17	Additions	(Reductions)	Principal Outstanding 6/30/18	Amount Due in One Year
<b>Business-Type Activities (continued) :</b>					
<b>Other Long Term Obligations:</b>					
Net Pension Liability	\$4,688,356	\$0	(\$1,681,895)	\$3,006,461	\$0
Net OPEB Liability	2,054,712	0	(1,225)	2,053,487	0
Compensated Absences	528,970	400,481	(342,614)	586,837	368,496
<i>Total Other Long Term Obligation</i>	<u>7,272,038</u>	<u>400,481</u>	<u>(2,025,734)</u>	<u>5,646,785</u>	<u>368,496</u>
Total Business-Type Activities	<u>\$54,214,474</u>	<u>\$3,121,713</u>	<u>(\$6,882,489)</u>	<u>\$50,453,698</u>	<u>\$5,009,919</u>

In July 2010, the District issued the Series 2010 Water Revenue Refunding Bonds in the amount of \$27,030,000. These bonds were issued for the purpose of currently refunding the outstanding principal amount of the Series 1998 Refunding Bonds and the Series 1999 Refunding Bonds. The District decreased its total debt service payments by \$3,476,809 as a result of the refunding. The District also incurred an economic gain (difference between the present values of the old and new debt service payments) of \$3,348,796. The bonds were issued for a nine year period with a final maturity at December 1, 2018. The portion of these bonds relating to the Series 1998 bonds are paid from assessments collected from the cities of Youngstown and Niles. The portion of these bonds relating to the Series 1999 bonds are paid from gross revenues of the water system after provisions for operating and maintenance expenses. The structuring of the Series 2010 bonds allows for a portion of the assessments to cash fund capital improvement projects in the near future in lieu of obligating the District with new loans. The flow of funds is set by the trust agreements and the District must follow the restrictive financial covenants to remain in compliance with the bond indenture. Restricted assets held by the trustee related to the Water Revenue Bond amounted to \$2,702,524. The District also internally maintains an operating reserve account of \$1,385,997 and a rate stabilization account of \$1,203,320. Under the terms of the bond covenant, these internally held accounts may be accessed by the District.

The District has pledged future revenues, net of operating expenses, to repay revenue bonds and OWDA loans. The debt is payable solely from net revenues and are payable through 2037. Annual principal and interest payments on the debt issues are expected to require 67.82 percent of net revenues, respectively. The total principal and interest remaining to be paid on the debt is \$52,804,516. Principal and interest paid for the current year and total net revenues were \$5,997,761 and \$8,885,131, respectively.

In fiscal year 2005, the District was approved for a \$7,105,074 Ohio Water Development Authority loan for improvements to the filtration system. This loan was issued for a twenty year period with a final maturity in fiscal year 2026.

In fiscal year 2007, the District was approved for a \$1,298,746 Ohio Water Development Authority loan for the replacement of the Niles Standpipe. This loan was issued for a twenty year period with a final maturity in fiscal year 2027.

In fiscal year 2006, the District was approved for a \$1,609,624 Ohio Water Development Authority loan for the replacement of the Chemical Feed roof. This loan was issued for a twenty year period with a final maturity in fiscal year 2027.

In fiscal year 2008, the District was approved for a \$302,790 Ohio Water Development Authority loan for the replacement of the Administration and Filter Building roof. This loan was issued for a twenty year period with a final maturity in fiscal year 2028.

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
*For the Fiscal Year Ended June 30, 2018*

---

In fiscal year 2008, the District was approved for a \$1,595,250 Ohio Water Development Authority loan for the Water Treatment Plant Lagoon Maintenance project. This loan was issued for a ten year period with a final maturity in fiscal year 2018.

In fiscal year 2010, the District was approved for a \$2,488,513 Ohio Water Development Authority loan for the Valve Replacement/Gate House project. This loan was issued for a twenty year period with a final maturity in fiscal year 2031.

The District was approved for a \$14,327,587 Ohio Water Development Authority loan for the Solids Contact Clarifier/Recarbonation project. This loan was issued for a twenty year period with a final maturity in fiscal year 2033.

In fiscal year 2012, the District was approved for an \$8,000,000 Ohio Water Development Authority loan for the Solid Clarifiers/Recarbonation project. This loan was issued for a twenty year period with a final maturity in fiscal year 2033.

The District was approved for a \$4,326,310 Ohio Water Development Authority loan for the Phase II Valve/Pipeline Replacement project. This loan was issued for a twenty year period with a final maturity in fiscal year 2037.

The District was approved for a \$2,364,846 Ohio Water Development Authority loan for the Berlin Pump Station Improvements project. This loan was issued for a twenty year period with a final maturity in fiscal year 2037.

The District was approved for a \$611,719 Ohio Water Development Authority loan for the SCADA/Instrumentation Improvements project. This loan was issued for a twenty year period with a final maturity in fiscal year 2036.

The District was approved for a \$3,202,817 Ohio Water Development Authority loan for the SCADA/Enhanced Security Improvements project. This loan was issued for a twenty year period with a final maturity in fiscal year 2036.

The District was approved for a \$362,614 Ohio Water Development Authority loan for the Dam/Spillway Improvement Design project. As of June 30, 2018, the District has drawn down proceeds of \$335,169. Total current year additions consisted of capitalized interest of \$12,859. This loan has not been finalized and therefore the repayment schedule is not included in the schedule of debt service payments. Until a final repayment schedule is available, the District is paying based upon estimates.

The District was approved for a \$2,575,037 Ohio Water Development Authority loan for the Chemical Feed Systems project. As of June 30, 2018, the District has drawn down proceeds of \$2,120,558 which includes amounts rolled over from the Chemical Feed Improvements Design loan. Total current year additions consisted of proceeds of \$69,390. This loan has not been finalized and therefore the repayment schedule is not included in the schedule of debt service payments. Until a final repayment schedule is available, the District is paying based upon estimates.

The District was approved for a \$6,408,951 Ohio Water Development Authority loan for the Phase III Valve/Main Replacement project. As of June 30, 2018, the District has drawn down proceeds of \$6,042,182 which includes amounts rolled over from the Phase III Valve Improvement Design loan. Total current year additions of \$2,638,983 consisted of proceeds of \$2,602,214 and capitalized interest of \$36,769. This loan has not been finalized and therefore the repayment schedule is not included in the schedule of debt service payments. Until a final repayment schedule is available, the District is paying based upon estimates.

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
For the Fiscal Year Ended June 30, 2018

An analysis of the OWDA loan balances is as follows:

	EPA/OWDA Loans
Outstanding Principal at June 30, 2017	\$41,815,738
Current Fiscal Year Loan Proceeds	2,671,604
Current Fiscal Year Capitalized Interest	49,628
Current Fiscal Year Principal Payments	(2,322,321)
Outstanding Principal at June 30, 2018	\$42,214,649

Principal and interest requirements to retire long-term obligations outstanding at June 30, 2018, are as follows:

	Water Revenue Bonds		OWDA Loans	
	Principal	Interest	Principal	Interest
2019	\$2,580,000	\$38,700	\$2,061,423	\$973,344
2020	0	0	2,122,903	914,049
2021	0	0	2,186,482	852,729
2022	0	0	2,252,246	789,307
2023	0	0	2,320,268	723,700
2024 - 2028	0	0	11,227,052	2,591,671
2029 - 2033	0	0	9,609,025	1,032,270
2034 - 2037	0	0	2,033,273	94,097
Total	\$2,580,000	\$38,700	\$33,812,672	\$7,971,167

**Note 12 – Significant Commitments**

***Contractual Commitments***

As of June 30, 2018, the District had the following contractual construction commitments outstanding:

Vendor Name	Contract Amount	Amount Paid To Date	Remaining Contract
Kirila Construction - Valves Phase III	\$7,512,354	\$7,003,872	\$508,482
CT Consultants - Valves Phase III	741,000	625,104	115,896
AP O'Horo - Chem Feed Phase I	2,859,680	2,715,940	143,740
AP O'Horo - Chem Feed Phase II	584,000	559,450	24,550
MS Consultants - Chem Feed Phase II	734,834	726,322	8,512
CR Electric - Electrical Duct Bank Replacement Project	421,000	386,370	34,630
AP O'Horo - Venturi Project	1,720,000	1,668,645	51,355
Gannett Fleming - Dam and Spillway	2,259,794	339,742	1,920,052
Total	\$16,832,662	\$14,025,445	\$2,807,217

Remaining commitment amounts were encumbered at year end.

**Mahoning Valley Sanitary District**  
*Notes to the Basic Financial Statements*  
*For the Fiscal Year Ended June 30, 2018*

---

***Encumbrances***

Encumbrances are commitments related to unperformed contracts for goods or services. Encumbrance accounting is utilized to the extent necessary to assure effective budgetary control and accountability and to facilitate effective cash planning and control. At fiscal year end, the District had \$5,529,213 of encumbrances expected to be honored upon performance by the vendor in the next fiscal year.

**Note 13 – Change in Accounting Principle and Restatement of Net Position**

For fiscal year 2018, the District has presented financial statements in accordance with generally accepted accounting principles. In conjunction with this presentation, the District has changed its basis of accounting from a modified cash basis to the accrual basis for its financial statements. This change required that certain adjustments be recorded to the June 30, 2017 net position as previously reported to reflect the prior year's effect of adopting these new accounting principles.

New Governmental Accounting Standards Board (GASB) pronouncements that were effective for fiscal year 2018 include GASB Statement No. 85, *Omnibus 2017*, Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions*, and related guidance from (GASB) Implementation Guide No. 2017-3, *Accounting and Financial Reporting for Postemployment Benefits other Than Pensions (and Certain Issues Related to OPEB Plan Reporting)*.

For fiscal year 2018, GASB's *Implementation Guide No. 2017-1* was also effective. These changes were incorporated in the District's fiscal year 2018 financial statements; however, there was no effect on beginning net position/fund balance.

GASB 85 addresses a variety of topics including issues related to blending component units, goodwill, fair value measurement and application, and postemployment benefits (pensions and other postemployment benefits (OPEB)). These changes were incorporated in the District's fiscal year 2018 financial statements; however, there was no effect on beginning net position/fund balance.

GASB 75 established standards for measuring and recognizing Postemployment benefit liabilities, deferred outflows of resources, deferred inflows of resources and expense/expenditure. Other than employer contributions subsequent to the measurement date, the District made no restatement for deferred inflows/outflows of resources as the information needed to generate these restatements was not available.

The adjustments for the change in basis of accounting and the implementation of GASB statement No. 75 had the following effect on net position as reported June 30, 2017:

Net Position June 30, 2017	\$40,120,521
Adjustments:	
Change in Basis of Accounting	14,877,213
Net OPEB Liability	(2,054,712)
Deferred Outflow - Payments Subsequent to Measurement Date	<u>14,038</u>
Restated Net Position June 30, 2017	<u>\$52,957,060</u>

---

## Required Supplementary Information

---

**Mahoning Valley Sanitary District**  
*Required Supplementary Information*  
*Schedule of the District's Proportionate Share of the Net Pension Liability*  
*Ohio Public Employees Retirement System - Traditional Plan*  
*Last Two Fiscal Years (1) \**

	2018	2017
District's Proportion of the Net Pension Liability	0.01916400%	0.02064600%
District's Proportionate Share of the Net Pension Liability	\$3,006,461	\$4,688,356
District's Covered Payroll	\$2,532,562	\$2,668,875
District's Proportionate Share of the Net Pension Liability as a Percentage of its Covered Payroll	118.71%	175.67%
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	84.66%	77.25%

(1) Although this schedule is intended to reflect information for ten years, information prior to fiscal year 2017 is not available. An additional column will be added each year.

\*Amounts presented for each fiscal year were determined as of the District's measurement date which is the prior calendar year end.

**Mahoning Valley Sanitary District**  
*Required Supplementary Information*  
*Schedule of the District's Proportionate Share of the Net Pension Liability*  
*Ohio Public Employees Retirement System - Combined Plan*  
*Last Two Fiscal Years (1) \**

	2018	2017
District's Proportion of the Net Pension Liability	0.02302500%	0.02366100%
District's Proportionate Share of the Net Pension Asset	\$31,345	\$13,168
District's Covered Payroll	\$94,300	\$92,100
District's Proportionate Share of the Net Pension Asset as a Percentage of its Covered Payroll	-33.24%	-14.30%
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	137.28%	116.55%

(1) Although this schedule is intended to reflect information for ten years, information prior to fiscal year 2017 is not available. An additional column will be added each year.

\*Amounts presented for each fiscal year were determined as of the District's measurement date which is the prior calendar year end.

**Mahoning Valley Sanitary District**  
*Required Supplementary Information*  
*Schedule of the District's Proportionate Share of the Net OPEB Liability*  
*Ohio Public Employees Retirement System - OPEB Plan*  
*Last Two Fiscal Years (1) \**

	2018	2017
District's Proportion of the Net OPEB Liability	0.01891000%	0.02034300%
District's Proportionate Share of the Net OPEB Liability	\$2,053,487	\$2,054,712
District's Covered Payroll	\$2,836,000	\$2,861,650
District's Proportionate Share of the Net OPEB Liability as a Percentage of its Covered - Payroll	72.41%	71.80%
Plan Fiduciary Net Position as a Percentage of the Total OPEB Liability	54.14%	54.05%

(1) Although this schedule is intended to reflect information for ten years, information prior to fiscal year 2017 is not available. An additional column will be added each year.

\*Amounts presented for each fiscal year were determined as of the District's measurement date which is the prior calendar year end.

***Notes to the Required Supplementary Information***

For fiscal year 2018, the single discount rate changed from 4.23 percent to 3.85 percent.



**Mahoning Valley Sanitary District**  
*Required Supplementary Information*  
*Schedule of the District's Contributions*  
*Ohio Public Employees Retirement System - Traditional Plan*  
*Last Two Fiscal Years (1)*

	<u>2018</u>	<u>2017</u>
<b>Net Pension Liability</b>		
Contractually Required Contribution	\$341,627	\$333,539
Contributions in Relation to the Contractually Required Contribution	<u>(341,627)</u>	<u>(333,539)</u>
Contribution Deficiency (Excess)	<u>\$0</u>	<u>\$0</u>
District Covered Payroll	\$2,531,377	\$2,674,827
Pension Contributions as a Percentage of Covered Payroll	<u>13.50%</u>	<u>12.47%</u>

(1) Although this schedule is intended to reflect information for ten years, information prior to fiscal year 2017 is not available. An additional column will be added each year.

**Mahoning Valley Sanitary District**  
*Required Supplementary Information*  
*Schedule of the District's Contributions*  
*Ohio Public Employees Retirement System - Combined Plan*  
*Last Two Fiscal Years (1)*

	<u>2018</u>	<u>2017</u>
<b>Net Pension Liability</b>		
Contractually Required Contribution	\$12,966	\$11,306
Contributions in Relation to the Contractually Required Contribution	<u>(12,966)</u>	<u>(11,306)</u>
Contribution Deficiency (Excess)	<u>\$0</u>	<u>\$0</u>
District Covered Payroll	\$96,060	\$90,379
Pension Contributions as a Percentage of Covered Payroll	<u>13.50%</u>	<u>12.51%</u>

(1) Although this schedule is intended to reflect information for ten years, information prior to fiscal year 2017 is not available. An additional column will be added each year.

**Mahoning Valley Sanitary District**  
*Required Supplementary Information*  
*Schedule of the District's Contributions*  
*Ohio Public Employees Retirement System - OPEB Plan*  
*Last Two Fiscal Years (1)*

	<u>2018</u>	<u>2017</u>
<b>Net OPEB Liability</b>		
Contractually Required Contribution	\$17,946	\$44,309
Contributions in Relation to the Contractually Required Contribution	<u>(17,946)</u>	<u>(44,309)</u>
Contribution Deficiency (Excess)	<u>\$0</u>	<u>\$0</u>
District Covered Payroll	\$2,744,887	\$2,815,831
Pension Contributions as a Percentage of Covered Payroll	<u>0.65%</u>	<u>1.57%</u>

(1) Although this schedule is intended to reflect information for ten years, information prior to fiscal year 2017 is not available. An additional column will be added each year.

***Notes to the Required Supplementary Information***

For fiscal year 2018, the single discount rate changed from 4.23 percent to 3.85 percent.

*(This page intentionally left blank)*

---

# Statistical Section

---

*(This page intentionally left blank)*

## Statistical Section

This part of the Mahoning Valley Sanitary District's comprehensive annual financial report presents detailed information as a context for understanding what the information in the financial statements, note disclosures, and required supplementary information says about the District's overall financial health.

<u>Contents</u>	<u>Page(s)</u>
<b>Financial Trends</b> These schedules contain trend information to help the reader understand how the District's financial performance and well-being have changed over time.	S2 - S3
<b>Revenue Capacity</b> These schedules contain information to help the reader assess the District's most significant local revenue source, charges for services.	S4 - S5
<b>Debt Capacity</b> These schedules present information to help the reader assess the affordability of the District's current levels of outstanding debt and the District's ability to issue additional debt in the future.	S7 - S9
<b>Economic and Demographic Information</b> These schedules offer economic and demographic indicators to help the reader understand the environment within which the District's financial activities take place.	S10 - S12
<b>Operating Information</b> These schedules contain service data to help the reader understand how the information in the District's financial report relates to the services the District provides and the activities it performs.	S13 - S15

**Sources:** Unless otherwise noted, the information in these schedules is derived from the comprehensive annual financial reports for the relevant fiscal year.

**Mahoning Valley Sanitary District**  
*Net Position by Component*  
*Last Two Fiscal Years (1)*  
*(accrual basis of accounting)*

	2018	2017
Net Investment in Capital Assets	\$23,474,961	\$17,089,717
Restricted for:		
Debt Service	2,696,074	4,172,643
Unrestricted	32,622,512	31,694,700
<i>Total Net Position</i>	<i>\$58,793,547</i>	<i>\$52,957,060</i>

**Source:** District Financial Records

(1) The District implemented an accrual basis of accounting beginning fiscal year 2018. Therefore, information prior to 2017 is not available.



**Mahoning Valley Sanitary District**

*Changes in Net Position*

*Last Fiscal Year (1)*

*(accrual basis of accounting)*

---

---

	2018
<b>Operating Revenues</b>	
Charges for Services	\$18,024,450
Miscellaneous	589,075
<i>Total Operating Revenues</i>	<u>18,613,525</u>
<b>Operating Expenses</b>	
Personal Services	3,902,045
Supplies and Services	4,186,781
Depreciation	2,573,366
Claims	563,761
Miscellaneous	623,675
<i>Total Operating Expenses</i>	<u>11,849,628</u>
<i>Operating Income (Loss)</i>	<u>6,763,897</u>
<b>Non-Operating Revenues (Expenses)</b>	
Timber Sales	100,000
Royalties	34,217
Interest	136,943
Interest and Fiscal Charges	<u>(1,198,570)</u>
<i>Total Non-Operating Revenues (Expenses)</i>	<u>(927,410)</u>
<b>Change in Net Position</b>	<u><u>\$5,836,487</u></u>

**Source:** District Financial Records

(1) The District implemented an accrual basis of accounting beginning fiscal year 2018. Therefore, information prior to 2018 is not available.

**Mahoning Valley Sanitary District**  
*Charges for Services and Principal Payers*  
*Last Two Years (1)*

Year	Amount Billed						Total Billed
	City of Youngstown		City of Niles		Village of McDonald		
	Revenue	Percentage	Revenue	Percentage	Revenue	Percentage	
2018	\$13,301,354	73.79 %	\$4,375,673	24.28 %	\$347,787	1.93 %	\$18,024,814
2017	13,381,490	73.65	4,424,669	24.35	362,589	2.00	\$18,168,748

**Source:** District's Financial Records

- (1) Information prior to fiscal year 2017 is not available.
- (2) This information is presented on a cash basis.
- (3) The Cities of Youngstown and Niles and the Village of McDonald are the District's only customers.

**Mahoning Valley Sanitary District**

*Water Billing Rate*

*Last Two Years (1)*

---

---

<u>Year</u>	<u>Rate per Million Gallons</u>
2018	\$2,240.15
2017	2,466.10

**Source:** District's Financial Records

(1) Information prior to fiscal year 2017 is not available.

*(This page intentionally left blank)*

**Mahoning Valley Sanitary District**

*Pledged Revenue Coverage*

*Last Fiscal Year (1)*

---

---

<u>Year</u>	<u>Water Service Charges and Interest</u>	<u>Direct Operating Expenses (3)</u>	<u>Net Available Revenue</u>	<u>Debt Service (2)</u>		<u>Coverage</u>
				<u>Principal</u>	<u>Interest</u>	
2018	\$18,161,393	\$9,276,262	\$8,885,131	\$4,827,321	\$1,198,570	1.47

(1) Information prior to fiscal year 2018 is not available.

(2) Revenue debt includes Water Revenue Bonds and OWDA loans payable solely from net revenues.

(3) Direct operating expenses do not include depreciation.

**Source:** District Financial Records

**Mahoning Valley Sanitary District**

*Ratio of Debt per Capita*

*Last Two Fiscal Years (1)*

---

---

<u>Fiscal Year</u>	<u>Personal Income</u>	<u>Population</u>	<u>General Bonded Debt Outstanding</u>
2018	\$1,571,624,992	89,511	\$2,592,264
2017	1,571,624,992	89,511	5,126,698

(1) Information prior to fiscal year 2017 is not available.

---



---

<u>Loans</u>	<u>Total Debt</u>	<u>Ratio of Debt to Personal Income</u>	<u>Debt Per Capita</u>
\$42,214,649	\$44,806,913	2.85%	\$500.57
41,815,738	46,942,436	2.99	524.43

**Mahoning Valley Sanitary District**  
*Demographic and Economic Statistics*  
*Last Ten Years*

Year	City of Youngstown			City of Niles		
	Estimated Population	Total Personal Income	Personal Income Per Capita	Estimated Population	Total Personal Income	Personal Income Per Capita
2018	66,982	\$1,052,488,166	15,713	19,266	\$444,081,300	\$23,050
2017	66,982	1,052,488,166	15,713	19,266	444,081,300	23,050
2016	66,982	1,052,488,166	15,713	19,266	444,081,300	23,050
2015	66,982	1,052,488,166	15,713	19,266	444,081,300	23,050
2014	66,982	1,052,488,166	15,713	19,266	444,081,300	23,050
2013	66,982	1,052,488,166	15,713	19,266	444,081,300	23,050
2012	66,982	1,052,488,166	15,713	19,266	444,081,300	23,050
2011	66,982	1,052,488,166	15,713	19,266	444,081,300	23,050
2010	82,026	1,090,371,618	13,293	20,893	406,180,813	19,441
2009	82,026	1,090,371,618	13,293	20,893	406,180,813	19,441

**Source:** 2000 U.S. Census Bureau and 2010 U.S. Census Bureau  
American Fact Finder, U.S. Census Bureau  
Ohio Labor Market Information

- (1) Unemployment for the City of Youngstown as of June 30 per Ohio Labor Market Information.



Village of McDonald			Total			Unemployment Rate (1)
Estimated Population	Total Personal Income	Personal Income Per Capita	Estimated Population	Total Personal Income	Personal Income Per Capita	
3,263	\$75,055,526	\$23,002	89,511	\$1,571,624,992	\$17,558	8.1%
3,263	75,055,526	23,002	89,511	1,571,624,992	17,558	8.4
3,263	75,055,526	23,002	89,511	1,571,624,992	17,558	7.7
3,263	75,055,526	23,002	89,511	1,571,624,992	17,558	7.6
3,263	75,055,526	23,002	89,511	1,571,624,992	17,558	9.0
3,263	75,055,526	23,002	89,511	1,571,624,992	17,558	11.9
3,263	75,055,526	23,002	89,511	1,571,624,992	17,558	11.1
3,263	75,055,526	23,002	89,511	1,571,624,992	17,558	13.7
3,481	63,260,213	18,173	106,400	1,559,812,644	14,660	14.7
3,481	63,260,213	18,173	106,400	1,559,812,644	14,660	14.7

**Mahoning Valley Sanitary District**  
*Principal Employers*  
*Current Year and Nine Years Ago*

<b>2018</b>			
Name of Employer	Nature of Business	Employees	Percentage of Total District Employment
General Motors Corporation	Car Manufacturing	3,600	5.38%
Youngstown Air Reserve Base	Government	1,792	2.68
Alorica (formerly West Corporation)	Call Center	1,300	1.94
Trumbull County	Government	1,280	1.91
Warren City School District	Education	810	1.21
AIM National Lease	Trucking	750	1.12
Delphi Packard	Auto Parts	600	0.90
Ohio Security Systems	Security/Janitorial	600	0.90
Arconic-Niles Ingot and Mill Products Operations	Titanium	575	0.86
AVI Food Systems	Food Service	500	0.75
Covelli Enterprise (Panera)	Food Service	500	0.75
Total		<u>12,307</u>	<u>18.40%</u>
Total Employment within the District		<u>66,877</u>	

<b>2009</b>			
Employer	Nature of Business	Employees	Percentage of Total District Employment
General Motors Corporation	Car Manufacturing	2,300	2.34%
Youngstown Air Reserve Base	Government	2,031	2.07
Trumbull County	Government	1,724	1.76
Trumbull Memorial/Forum Health	Health Care	1,472	1.50
WCI Steel	Manufacturing	1,296	1.32
West Telemarketing	Sales	1,100	1.12
Humility of Mary - St. Joseph	Health Care	1,085	1.11
Warren City School District	Education	868	0.89
Delphi Packard	Vehicle Wiring Systems	590	0.60
AVI Food Systems	Food Service	500	0.51
Total		<u>12,966</u>	<u>13.22%</u>
Total Employment within the City		<u>98,100</u>	

**Source:** Trumbull County 2017 CAFR

**Mahoning Valley Sanitary District**

*Operating Indicators*

*Last Two Years (1)*

Description	2018	2017
Annual Volume of Water Produced (Billions of gallons)	7.5	7.9
Water Treatment Plant Capacity (Millions of gallons per day)	60	60
Water Storage Capacity (Millions of gallons)	35.9	35.9
Average Daily Usage (Millions of gallons per day)	20.46	21.56
Population Served	220,000	220,000
Monthly Average Gallons Pumped (Millions of gallons)		
City of Youngstown	15.10	15.86
City of Niles	4.97	5.26
Village of McDonald	0.39	0.43
Total Gallons Pumped (Millions of gallons)		
City of Youngstown	5,511.39	5,789.91
City of Niles	1,813.36	1,921.99
Village of McDonald	143.93	156.34

(1) Information prior to 2017 is not available.

**Mahoning Valley Sanitary District**

*Capital Asset Statistics*

*Last Two Fiscal Years (1)*

---

---

	<u>2018</u>	<u>2017</u>
<b>Land</b>		
Total Acres	7,510	7,510
Water/Reservoir Acres	2,010	2,010
Reservoir Capacity (in billions of gallons)	11	11
<b>Buildings</b>	20	20
<b>Vehicles</b>	30	30
<b>Pipelines (in miles)</b>	27.4	27.4

(1) Information prior to fiscal year 2017 is not available.

**Mahoning Valley Sanitary District**  
*Full-Time Equivalent District Employees by Department*  
*Last Two Fiscal Years (1)*

<b>Department</b>	2018	2017
<b>Police</b>	3.5	3.5
<b>Field Maintenance</b>	12.0	12.0
<b>Pump Station</b>	8.0	9.0
<b>Purification</b>	16.0	13.0
<b>Administration</b>	10.0	9.0
Total Employees	<u>49.5</u>	<u>46.5</u>

**Method:** Using 1.0 for each full-time employee and 0.5 for each part-time employee at June 30.

**Source:** District records

(1) Information prior to fiscal year 2017 is not available.

*(This page intentionally left blank)*

OHIO AUDITOR OF STATE  
**KEITH FABER**



**MAHONING VALLEY SANITARY DISTRICT**

**TRUMBULL COUNTY**

**CLERK'S CERTIFICATION**

**This is a true and correct copy of the report which is required to be filed in the Office of the Auditor of State pursuant to Section 117.26, Revised Code, and which is filed in Columbus, Ohio.**

*Susan Babbitt*

**CLERK OF THE BUREAU**

**CERTIFIED  
JANUARY 15, 2019**