

# 2021 ANNUAL REPORT



Mineral City Sewer Rehabilitation Project

September 8, 2022

### **Tuscarawas County Metropolitan Sewer District**

9944 Wilkshire Boulevard NE Bolivar, OH 44612

www.tcmsd.org

Committed to providing safe, high quality water and wastewater services to Tuscarawas County

We are an equal opportunity employer and provider.

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### **MISSION AND OVERVIEW**

### Our Mission

The Tuscarawas County Metropolitan Sewer District is committed to providing safe, high quality water and wastewater services to the communities we serve; promoting and protecting the public health and safety; and maintaining a standard of excellence in customer service.

### Description of the Tuscarawas County Metropolitan Sewer District

The Tuscarawas County Metropolitan Sewer District was formed in 1973 by the Board of County Commissioners under the provisions of Ohio Revised Code (ORC) 6117 and provides water service under the provisions of ORC 6103. The resolution authorizes the District to provide drinking water and sanitary service to all unincorporated areas of Tuscarawas County, excluding those areas served by the following regional districts, which were formed under the provisions of ORC 6119:

- Twin City Water & Sewer District, which provides service to the City of Uhrichsville, the Village of Dennison, and unincorporated areas of Mill Township
- Atwood Regional Water & Sewer District, which provides service to a portion of Warren Township in Tuscarawas County, as well as unincorporated areas within Carroll County.

In addition to authorization to provide service to unincorporated areas of Tuscarawas County, the original resolution of formation, along with authorizing ordinances from various municipalities, provide authorization to the County to provide services to the following municipalities: Village of Barnhill, Village of Bolivar, Village of Midvale, Village of Parral, Village of Roswell, Village of Stone Creek, and Village of Zoar

In 1973, the Board of Commissioners commissioned the <u>Report and General Plans of Sewerage and Water Systems for Portions of Lawrence and Sandy Townships, Tuscarawas County, Ohio</u> ("GENERAL PLAN"), which was prepared by W.E. Quicksall and Associates, Inc. At the time the plan was prepared, the existing Wilkshire Hills Water and Sewerage facilities were owned and operated by the developers of Wilkshire Hills. The GENERAL PLAN provided a framework for development of water and sewerage facilities to serve the northeastern portion of the County. Upon the recommendation of the GENERAL PLAN, the County developed the Wilkshire Hills-Bolivar-Zoar Sewer Districts as a regional sewer district, with sewerage from these three areas being treated at the Wilkshire Hills Wastewater Treatment Plant. At the time the study was prepared, Mineral City had already received a grant from Ohio EPA to construct a wastewater treatment facility, and as such, was excluded from the regional sewerage planning.

The GENERAL PLAN also recommended a regional solution for water supply, which included Wilkshire Hills, Zoar, Sandyville, Crossroads Area, Mineral City, and Zoarville.

In November, 1974 the Tuscarawas County Commissioners purchased the water distribution system and water wells from the developers of Wilkshire Hills to assure continuing proper development, operation and maintenance of the system. At the time, the water system consisted of three drilled wells and approximately 3.5 miles of 6", 8" and 12" water mains.

Shortly after acquiring the water facilities, the Commissioners approved a regional water system for Wilkshire Hills and the Village of Zoar in conformance with the GENERAL PLAN. At this time, the Commissioners authorized the preparation of detailed plans for the construction of a 500,000 gallon storage tank for the system to provide fire protection and system storage. The tank was constructed during the winter and spring of 1975 – 1976. During this same period, the Commissioners also authorized the preparation of detailed plans for the construction of a water distribution system in the Village of Zoar.

In May 1976, the Commissioners received a letter from the Southeast District of the Ohio Environmental Protection Agency expressing concern that the existing well yield was not adequate for even the present demand, let alone the addition of the Village of Zoar water system. At this time the County retained W.E. Quicksall and Associates, Inc. for the preparation of a *Feasibility Study of a Supplemental Water Supply for the Wilkshire Hills-Zoar Water Distribution System*.

The Feasibility Study evaluated: connection to the City of Canton water supply; connection to the Village of Bolivar water supply; and drilling new wells in accordance with the GENERAL PLAN. Although the Feasibility Study recommended connecting to the Village of Bolivar, the County ultimately drilled a new well at the site of the present day Welton Rd. Well Field. The new well also included the construction of a new pump house. A second well was drilled at the Welton Rd. site in 1982, and sometime after Well #2 was placed into operation, the existing wells near Northwood Dr and Wilkshire Blvd were abandoned.

In January 1976, a <u>Facilities Plan of Sewerage for the Uhrichsville-Dennison Planning Area Including Barnhill, Brightwood, Midvale, Roswell and Parts of Tuscarawas County</u> was prepared by W.E. Quicksall and Associates, Inc. on behalf of the Tuscarawas County Commissioners and the City of Uhrichsville. This plan evaluated alternatives for providing sewer facilities to the areas tributary to the Twin City Water & Sewer District sewer collection system and treatment plant. The Midvale and Barnhill sewerage systems were ultimately constructed as a result of this facilities plan; however, the Village of Roswell and the Brightwood area remain unsewered.

The District boundaries have been amended several times to include the villages of Mineral City and Port Washington. The full service area of the District is more fully described in the following section.

### Water and Sewer Districts

#### **Kerr Sewer District (010)**

The Kerr Sewerage system was constructed by Raymond E. Kerr in 1967. These facilities were transferred to the County for ownership, operation and maintenance in 1971.

#### Midvale/Barnhill Sewer District (015)

Service to the villages of Midvale and Barnhill was authorized as part of the 1973 resolution to form the District. The Midvale/Barnhill system is served with a small-diameter, variable grade sewerage system. With this type of system, each customer connection has a septic tank, which is owned and operated by the County.

The sewage from this system flows to the Twin City Water & Sewer District where it is transported through Twin City's sewerage system for treatment at its wastewater treatment facility. Twin City provides this service to the District through a sewer service agreement, which went into effect in 1986.

Since its original construction in 1988, the system has seen moderate growth through private development, which primarily occurred between the mid-1990's through the mid-2000's.

### Wilkshire Hills Water & Sewer District (030/032)

Service to the Wilkshire Hills District was authorized as part of the 1973 resolution to form the District. The Wilkshire Hills District is located in Lawrence Township and is comprised of a number of different subdivisions that were developed primarily during the late 1960's through the early 1990's. The majority of the subdivisions in this district were developed by Rog-Win, Inc. Sewage from this system is discharged to the County's Wilkshire Hills wastewater treatment facility.

#### Zoar Water & Sewer District (040)

Service to the village of Zoar was authorized as part of the 1973 resolution to form the District. The Zoar sewerage system was constructed in 1980 as part of a joint project that included construction of the Bolivar sewerage system, the Zoar sewerage system, as well as improvements to the Wilkshire Hills WWTP. Sewage from the Village of Zoar is discharged into the Wilkshire Hills sewerage system where it is conveyed to the County's Wilkshire Hills wastewater treatment facility.

Water is supplied by the County's Wilkshire Hills Water Treatment Plant located in Lawrence Township. The Zoar water distribution system was constructed in 1979 and included water facility upgrades in the Wilkshire District in order to provide the required pressure and capacity for the Zoar system. These improvements included construction of a new water mains on Laurens Dr, Bimeler St, Lawnridge St, and an extension along State Route 212 to the Village.

#### Zoarville Water District (042)

In 2019, the District extended a water transmission line to connect the Zoarville Water Works to the Wilkshire Hills public water system. The connection became operational in December 2019, and final transfer of assets and customers from the Zoarville Water Works Co. to the County was finalized in 2020. After completion of the transfer, the Zoarville Water Works Co. was be dissolved.

#### Mineral City Water & Sewer District (045)

On November 25, 1991, the limits of the District were amended to include the Village of Mineral City, at which time, the Village passed an ordinance authorizing the transfer of the Village's water facility assets, obligations and customers to the County. The Mineral City sewer district was established and the Village's existing water and wastewater facilities were transferred to the County on January 1, 1992. Wastewater from this system is conveyed to the Mineral City wastewater treatment facility, which is now owned and operated by the County.

Mineral City is part of the County's Wilkshire Hills Public Water System and receives its water from the Wilkshire Hills Water Treatment Facility located in Lawrence Township.

#### **Dundee Water District (050)**

Service to the Dundee Water District was authorized as part of the 1973 resolution to form the District. The Dundee Water system provides drinking water for the unincorporated community of Dundee and surrounding areas of Wayne Township. The Dundee water facilities were constructed in 1981. Facilities were subsequently expanded in 1981 to provide service to residents along Pleasant Hill Rd (TR 72), and in 1996 to provide service to residents along Hardy Dr (TR 443).

#### **Bolivar Sewer District (060)**

Service to the Village of Bolivar was authorized as part of the 1973 resolution to form the District. Sewage from the Village of Bolivar is pumped to the County's Wilkshire Hills wastewater treatment facility. The Bolivar sewerage facilities were constructed in 1980 in conjunction with the Zoar sewerage system and the Wilkshire Hills WWTP Upgrade.

The Village of Bolivar owns and operates a public drinking water system and is not served by County drinking water; however, there are two emergency interconnections between the County and the Village, if needed. The Village and County entered into an agreement for the purchase of water for emergency purposes on July 8, 1985.

#### Lawrence Township Industrial Park Water & Sewer District (061)

Service to this District was authorized as part of the 1973 resolution to form the District. Water for this district is supplied from the County's Wilkshire Hills Water Treatment Plant. Sewerage from this district discharges into the County's Bolivar Sewer District.

#### Bolivar Sewer District – Metered (062)

This district was established for those commercial and industrial customers in the Village of Bolivar whose monthly sewer rates are based upon their metered water usage. The water meters are the property of the Village of Bolivar; however, we obtain monthly readings of such meters for the purposes of sewer billing.

#### **Hunters Green Sewer District (063)**

Service to this District was authorized as part of the 1973 resolution to form the District. In the late 1990's, County water and sewer facilities were extended by a private developer to provide service to the proposed Hunters Green subdivision. Once constructed, these facilities were subsequently transferred to the County for ownership, operation and maintenance. The sewer facilities are tributary to the Wilkshire Hills Wastewater Treatment Plant. The water facilities are connected to the Wilkshire Hills water system.

#### Sandyville Sewer District (070)

Service to this District was authorized as part of the 1973 resolution to form the District. The facilities in this district were originally constructed in 1979 as part of a joint project between Tuscarawas County and Stark County. Stark County's East Sparta sewerage system discharges into the Sandyville Sewer District, which transports sewage to the Sandyville/East Sparta WWTP. The County provides sewer service to Stark County through a Sewer Service Agreement, which was most recently amended on December 15, 2016 to detail the proportionate share of each party relating to the upgrade of the WWTP.

#### Sandyville Water & Sewer District (071)

Service to this District was authorized as part of the 1973 resolution to form the District. Water facilities were extended to Sandyville in 2013 as part of a major capital improvement project. Water is supplied from the County's Wilkshire Hills WTP.

### Sandy Valley Estates Water & Sewer District (072)

Water and sewer facilities within the Sandy Valley Estates Water & Sewer District are owned and operated by United Mobile Homes, Inc. ("UMH"). Water is supplied to this district through a water supply agreement between the County and UMH, which was most recently updated on February 25, 2016. Water is supplied from the County's Wilkshire Hills WTP.

Sewer service is provided through a sewer service agreement between the County and UMH dated June 4, 1980. Sewer from this District is discharged into the Sandyville Sewer District.

#### Jennie Brick/Dover Zoar & 183 from Eight Corner School House to Carroll Co. Line (073)

Service to this District was authorized as part of the 1973 resolution to form the District. Water facilities were extended to this area in 2013 as part of a major capital improvement project. Water is supplied from the County's Wilkshire Hills WTP.

A small expansion to this system was performed in response to a petition request from several property owners along Eight-Corner School House Rd. The cost of this project has been financed through a special assessment to those property owners.

#### Sandy Township (074)

Service to this District was authorized as part of the 1973 resolution to form the District. Water facilities were extended to this area in the mid 1990's following a petition requesting such extension from property owners within the service area. Water is supplied from the County's Wilkshire Hills WTP.

#### Port Washington Sewer District (080)

The limits of the District were amended to include the Village of Port Washington in the District's service area. The Port Washington Sewer District was established to provide sewer service to the Village. The sewage from this system is pumped to the Village of Newcomerstown where it is transported through the Village's sewerage system for treatment at the Village's wastewater treatment facility. The Village provides this service to the District through a sewer service agreement, the most recent version of which was adopted December 19, 2016.

#### Stone Creek Sewer District (085)

Service to this District was authorized as part of the 1973 resolution to form the District. Sewer facilities serving this district were constructed in 2009, which included the construction of the County-owned Stone Creek WWTP.

### Wainwright Water & Sewer District (090/091)

Service to this District was authorized as part of the 1973 resolution to form the District. The sewage from this system is pumped to the Village of Tuscarawas where it is transported through the Village's sewerage system for treatment at the Village's wastewater treatment facility. The Village provides this service to the District through a sewer service agreement dated June 30, 1980.

The water for this District is supplied by the Village of Tuscarawas Public Water System through a water service agreement with the Village, the most recent version of which went into effect on July 5, 1994.

### Sewerage Collection and Treatment

The District provides sanitary sewer service to 3,369 individual customers and 1 wholesale customer (Stark County/East Sparta – 529 EDUs). In total, the District provides service to 4,526 equivalent dwelling units ("EDUs") including the wholesale service for a total estimated equivalent service population of 11,270¹.

The County currently owns and operates five separate wastewater treatment facilities:

- Wilkshire Hills WWTP 0.75 MGD Extended Aeration Activated Sludge
- Sandyville/East Sparta WWTP 0.50 MGD Extended Aeration Activated Sludge
- Mineral City WWTP 0.15 MGD Extended Aeration Activated Sludge
- Stone Creek WWTP 0.03 MGD Membrane Bioreactor
- Kerr WWTP 0.08 MGD Extended Aeration Package Plant

The County also has a number of sewerage systems that discharge to other political subdivisions for treatment. These systems include:

- Midvale/Barnhill discharges to the Twin City Water & Sewer District sewerage system
- Port Washington discharges to the Village of Newcomerstown sewerage system
- Wainwright discharges to the Village of Tuscarawas sewerage system

The District sewerage system is comprised of 77 miles of gravity sewer mains, 11 miles of force mains, 24 major pump stations, 10 grinder pump stations, 502 septic tank systems (486 active, 16 inactive), 1 septic tank effluent pump station, and 5 wastewater treatment plants<sup>2</sup>.

<sup>&</sup>lt;sup>1</sup> Based on Census data, average household size in Tuscarawas County is 2.49

<sup>&</sup>lt;sup>2</sup> Based on currently available GIS data

### **Drinking Water Production and Distribution**

The District provides water service to 2,530 customers or 3,030 EDUs. This results in an equivalent service population of 7,545 in the following areas:

- Wilkshire Hills Public Water System
  - o Crossroads Area, Wilkshire Hills area, Lawrence Township Industrial Park, Hunters Green
  - o Sandyville/Jennie Brick Road Area
  - o Mineral City
  - o Zoar/Zoarville
- Dundee Public Water System
  - Serves the community of Dundee and surrounding unincorporated areas of Wayne Township
- Wainwright Public Water System
  - o Unincorporated community of Wainwright and surrounding areas of Warwick Township

The District is responsible for operation and maintenance of 79 miles of water mains, 9 water storage tanks, 5 booster pump stations, and 2 water treatment plants.

### **Contracted Operations**

In addition to those facilities owned by the County, the District is responsible for operation and/or maintenance of several other facilities through service agreements. These include:

- Tuscarawas Valley Local Schools WWTP Contract operation of wastewater treatment plant as required to meet Ohio EPA minimum staffing requirements. The School is responsible for maintenance of the facility.
- Job & Family Services Grinder Pump Station Contract operation and maintenance of the grinder pump station; however, Job & Family is responsible for the cost of major equipment replacement/repairs.

#### Other Contracts

- United Mobile Homes (Water & Sewer Agreements)
- Brightwood Mobile Home Park (Sewer Agreement)
- Eastport Estates Mobile Home Park (Sewer Agreement)
- Superior Mobile Homes (Sewer Agreement)
- Dutchtown Road Ext. Dedicated Private Drive (Agreement to share in the cost of operating and maintaining the reservoir access drive)

### **GOALS AND OBJECTIVES**

### Prior Year (2021) Goals and Objectives - Self-Assessment

### Administrative/Engineering Goals

Goal	Achieved? (Y/N)	Deferred? (Y/N)	Remarks
Update SWPP upon completion of Well #4	N	Y	Project was delayed due to OEPA plan review. Extended delays were related to COVID-19 and OEPA staff working remotely
Update Water System Asset Management Plan	Y		,
Annual update of Comprehensive Water System Contingency Plan and Desktop Training Exercises	Y		
Finalize public system I/I improvements in Wainwright Sewer System and begin addressing private property issues	N	Y	We hope to resume this work in 2022
Improve hydrant maintenance program	Y		Additional hydrant maintenance is needed in 2022
Commence replacement of identified hydrants	N	Y	Contracts are in place, but due to supply chain issues, not all parts were in stock during 2021. This work is scheduled for early 2022.
Prepare an RFP for blow-off assembly replacements in the Wainwright Water District	N	Y	
Retrofit Wainwright Booster Station based on Village of Tuscarawas Storage Tank Modifications	Y		The new pressure control valve cannot be calibrated until the Village completes construction of their new water tank
Finalize Rehabilitation of Dundee Reservoir #1 and WTP Filter train #1 using OPWC grant	Y		
ROV Inspection of Dundee Reservoir #3 (TR 72)	Y		
Implementation of the recommendations from the Sandyville Storage Tank #2 inspection	N	Y	Defer until 2023 - 10 year anniversary re- coating

### Water District – Level of Service Goals

Goal	Achieved?	Deferred?	Remarks
	(Y/N)	(Y/N)	

Quantity Goal – Meet average day demand with largest well/pump out of service 100% of the time	N	Repeating Goal	This goal cannot be met until the Wilkshire WTP is complete along with well #4
Quantity Goal – Limit total water loss to 15% for all district water systems	N	Repeating Goal	This goal cannot be met until Mn treatment is implemented in the Wilkshire system and water system meters are replaced
Quality Goal – Meet all drinking water standards, as well as secondary standards for iron and manganese; provide adequate chlorine residuals at all times, maintain compliance with fluoridation standards	N	Repeating Goal	Goal was satisfied except for January 2021 when Wilkshire had to rely on Well #1. When Well #1 is used, we are unable to meet secondary limit for manganese. All other quality goals were achieved
Reliability Goal – Limit unplanned service outages to 6 hours	Y	Repeating Goal	One extended service outage that was related to a system valve that was opened by the Village of Bolivar's contractor
Respond to customer service complaints and/or inquiries within 1 business day	N/A	N	We do not have a complaint management system in place to measure this. Since it cannot be measured, this goal will be removed until such time as a complaint management system is implemented

### Water District – Operational Goals

Goal	Achieved?	Deferred?	Remarks
	(Y/N)	(Y/N)	
Operate all facilities in compliance with state	Y	Repeating	
and federal standards, as well as each		Goal	
facility's License to Operate			
Comply with Ohio's minimum staffing	Y	Repeating	
requirements for drinking water facilities		Goal	
Continue implementation of a Computerized	Y		CMMS was developed
Maintenance Management System (CMMS)			in-house to track
			maintenance work
			orders
Continue reduction of Non-Revenue water	N	Repeating	We will not be able to
		Goal	achieve until manganese
			treatment plant has been
			completed and new

			water system meters are installed
Valve Exercising Program	N	Y	Dedicated crew for valve exercising at least 1 day per week during warm weather months – Exercise 20% of all system valves every year, minimum
Hydrant Flushing Program – flush all water distribution systems at least annually	N	Y	Highest priority areas were flushed, but not all areas received flushing

### **Sewer District – Operational Goals**

Goal	Achieved?	Deferred?	Remarks
	(Y/N)	(Y/N)	
Operate all facilities in compliance with state	Y	Repeating	
and federal standards, as well as each		Goal	
facility's License to Operate			
Comply Ohio's minimum staffing	Y	Repeating	
requirements for wastewater facilities		Goal	
Maintain and continually improve	Y	Repeating	
wastewater facility housekeeping standards		Goal	
Complete the Sanitary Sewer Evaluation	Y		Biding documents need
Survey of the Wilkshire Hills Sub-Sewershed			to be prepared to
#1, which is tributary to the Cedar Village			complete needed
Apartment area sewerage system.			improvements/repairs
Perform sewer line cleaning for the easement	N	Y	Customized equipment
area between Buehler Rd. and N. Orchard			was built in preparation
Rd.			for work. Work to be
			completed in 2022.
Conduct a sewer condition assessment of the	Y		Biding documents need
Welton Rd. easement area sanitary sewer			to be prepared to
			complete needed
			improvements/repairs
Conduct a sewer condition assessment of the	N	Y	To be completed in 2022
Melrose easement area			
Septic tank maintenance – inspection of 100	N	Repeating	System was developed
septic tanks and pumping/cleaning as		Goal	for septic tank
needed			inspection. Contracting
			cleaning as needed.
			Emergency cleanings
			performed in-house.

# Upcoming Year (2022) Goals and Objectives

### Administrative/Engineering Goals

Goal	Remarks
Bid and award contracts for the Wilkshire Hills Water System	Primary funding by USDA RD
Upgrade and Well #4	with balance by ARPA funds
Update SWPP upon completion of Well #4	
Update Water System Asset Management Plan	

Annual update of Comprehensive Water System Contingency	
Plan and Desktop Training Exercises	
Finalize public system I/I improvements in Wainwright	
Sewer System and begin addressing private property issues	
Hydrant maintenance	Award a contract for repair of
	remaining "out of service"
	hydrants
Commence replacement of identified hydrants	Work with Bridges Excavating to
	replace 2 hydrants
Prepare an RFP for blow-off assembly replacements in the	
Wainwright Water District	
Dundee Reservoir #3 (TR 72) Renovation	Contract with Mid-Atlantic
	Storage Tanks and rental of
	hydropneumatic tank
Dundee leakage investigation	Locate valve in off-road section
	of line along SR 93 between
	Pleasant Hill & Cement Bridge
ARPA Projects	Authorize contracts as needed
Implementation of the recommendations from the Sandyville	Defer until 2023 - 10 year
Storage Tank #2 inspection	anniversary re-coating
Prepare bidding documents for Sanitary Sewer Rehabilitation	
for the Cedar Hills Sewershed and the Welton Rd. Easement	
Area	
Preparation of Bidding Documents for the Old	
Orchard/North Orchard Waterline Replacement Project	
Prepare an RFP for blow-off assembly replacements in the	
Wainwright Water District.	
Preparation of Bidding Documents for the Dundee Water	
Treatment Plant – Iron Pre-Treatment System	
Install cathodic protection system in the Wainwright storage	Perform this work after the
tank	Village's new tank is in service
Complete tasks identified for completion in year one of the	
District's Cybersecurity Plan	

### Water District – Level of Service Goals

Goal	Remarks
Quantity Goal – Meet average day demand with largest	This goal cannot be met until the
well/pump out of service 100% of the time	Wilkshire WTP is complete along
	with well #4
Quantity Goal – Limit total water loss to 15% for all district	This goal cannot be met until Mn
water systems	treatment is implemented in the
	Wilkshire system and water
	system meters are replaced
Quality Goal – Meet all drinking water standards, as well as	This can be achieved upon
secondary standards for iron and manganese; provide	completion of the Wilkshire Hills
adequate chlorine residuals at all times, maintain compliance	Water System Upgrade
with fluoridation standards	. 25
Reliability Goal – Limit unplanned service outages to 6 hours	

### **FINANCIAL INFORMATION**

#### **Sewer District Cash Flow**

Evaluation Period: January 1, 2021 through December 31, 2021 (Source: Sewer District General Ledger – All Items Paid or Pending as of January 2022 billing)

Operating Revenue Sewer Sales Penalties Wholesale Sewer Sales³ Reimbursements Refunds Other Receipts Contractor Registration Fees Subtotal: Operating Revenue	Amount 2,038,000 32,976 161,425 5,415 4,063 967 50 2,242,896
Non-Operating Revenue Contract Services Provided <sup>4</sup> (new code)	6,252
Proceeds from Sale of Assets	1,319
Interest	0
Subtotal: Non-Operating Revenue	7,522
Customer/Developer Contributions	51,249
Total Revenue (Excluding Grant and Loan Proceeds)	2,301,667
Operating Expenses	(1,357,962)
Investing Activities Plant Property Equipment	
Plant, Property, Equipment  Capital Projects	(542,990)
Equipment	(67,031)
Grant Proceeds	367,227
Net Cash from Investing Activities	(282,794)
Financing Activities	
Loan Proceeds	(475.204)
Principal & Interest Payments <sup>5</sup> Net Cash from Financing Activities	(475,294) (475,294)
Net Cash from Financing Activities	
Net Income/Loss	225,667
End of Year Fund Balances	520.450
Operating Fund Emergency/SLA Fund	539,450 149,658
Debt Payment Fund	57,843
Debt Reserve Fund	65,072
Capital Fund	7,002
Checking Account - Balance x 60% (40% allocated to Water District)	100,934
Total Cash Balance	919,959

<sup>&</sup>lt;sup>3</sup> New code was established for this during 2021. Only a portion of the wholesale sewer sales are accounted for in this code. A portion of this revenue was recorded under "Sewer Sales".

<sup>&</sup>lt;sup>4</sup> New code was established during 2021. A portion of the receipts for contract services provided were recorded under "Sewer Sales".

<sup>&</sup>lt;sup>5</sup> Due to refinancing of Stone Creek Sewer System USDA loan to OWDA loan, one annual payment was skipped resulting in reduced principal & interest payments for 2021.

### Water District Cash Flow

Evaluation Period: January 1, 2021 through December 31, 2021 (Source: Water District General Ledger – All Items Paid or Pending as of January 2022 billing)

Operating Revenue Water Sales Penalties Wholesale Water Sales Reimbursements <sup>6</sup> Refunds Other Receipts Contractor Registration Fees Subtotal: Operating Revenue	Amount 1,401,550 25,863 2,160 27,456 1,249 325 50 1,458,653
Non-Operating Revenue Contract Services Provided Proceeds from Sale of Assets Interest Subtotal: Non-Operating Revenue	2,610 0 0 2,610
Customer/Developer Contributions <sup>7</sup>	65,914
Total Revenue (Excluding Grant and Loan Proceeds)	1,527,177
Operating Expenses	(746,975)
Investing Activities Plant, Property, Equipment Capital Projects Equipment Grant Proceeds Net Cash from Investing Activities	(419,742) (46,747) 190,843 (275,647)
Financing Activities Loan Proceeds Principal & Interest Payments <sup>8</sup> Net Cash from Financing Activities  Net Income/Loss	14,500 (342,190) (275,647) 176,864
End of Year Fund Balances Operating Fund Emergency/SLA Fund Debt Payment Fund Debt Reserve Fund Capital Fund Checking Account - Balance x 60% (40% allocated to Water District) Total Cash Balance	667,969 25,881 63,286 206,310 20,800 67,290 1,051,536

Includes settlement for Village of Bolivar reservoir overflow
 Includes cash contributions for Eight Corner School House Road waterline extension

<sup>&</sup>lt;sup>8</sup> Due to refinancing of Sandyville Water System USDA loan to OWDA loan, one annual payment was skipped resulting in reduced principal & interest payments for 2021.

**Assets and Depreciation** 

Assets and Depreciation							
	Balances 12/31/2020	Additions	Deletions	Balance 12/31/2021			
Sewer District							
Land	212,977	0	0	212,977			
Construction in Progress	154,798	557,120	(608,381)	103,537			
Total Land and Construction in Progress	367,775	557,120	(608,381)	316,514			
Buildings & Improvements	5,215,307	0	0	5,215,307			
Machinery & Equipment	2,282,161	30,145	0	2,312,306			
Vehicles	685,018	0	0	685,018			
Sewer Lines	25,651,766	640,663	0	26,292,429			
Totals at Historical Cost	33,834,252	670,808	0	34,505,060			
Less Accumulated Depreciation:							
Buildings & Improvements	(3,028,799)	(104,145)	0	(3,132,944)			
Machinery & Equipment	(1,318,304)	(59,426)	0	(1,377,730)			
Vehicles	(586,240)	(27,529)	0	(613,769)			
Sewer Lines	(9,455,448)	(397,810)	0	(9,853,258)			
Total Accumulated Depreciation	(14,388,791)	(588,910)	0	(14,977,701)			
Capital Assets - Net	19,813,236	639,018	(608,381)	19,843,873			
Water District							
Land	242,273	69,622	0	311,895			
Construction in Progress	526,635	261,546	(468,825)	319,356			
Total Land and Construction in Progress	768,908	331,168	(468,825	631,251			
Buildings & Improvements	1,105,972	0	0	1,105,972			
Machinery & Equipment	1,913,950	0	0	1,913,950			
Vehicles	198,799	33,739	0	232,538			
Water Lines	14,760,604	448,897	0	15,209,501			
Totals at Historical Cost	17,979,325	482,636	0	18,461,961			
Less Accumulated Depreciation:							
Buildings & Improvements	(583,728)	(21,612)	0	(605,340)			
Machinery & Equipment	(582,192)	(61,520)	0	(643,712)			
Vehicles	(102,774)	(22,818)	0	(125,592)			
Water Lines	(2,905,650)	(230,388)	0	(3,136,038)			
Total Accumulated Depreciation	(4,174,344)	(336,338)	0	(4,510,682)			
Capital Assets - Net	14,573,889	477,466	(468,825)	14,582,530			

# Reserve Analysis

Recommended Minimum Reserves	Sewer District	Water District
Operating Cash Reserve > 1/8 x Operating Expenses (AWWA)	204,700	130,090
Emergency Reserve > Cost of Most Vulnerable Facility (AWWA)	300,0009	750,00010
Debt Reserve (equal to total annual debt service)	469,469	360,556
Recommended Minimum – Cash and Cash Equivalents	974,169	1,240,646
Cash and Cash Equivalents – Year End Balance	943,228	1,062,549

<sup>&</sup>lt;sup>9</sup> Assumes failure of mechanical screen or sludge press <sup>10</sup> Assumes failure of 500,000 gallon storage tank at \$1.50 per gallon

### Fixed Assets Purchased (>\$5,000)

### **Sewer District Fixed Assets**

Description	Cost
Polaris Ranger for off-road CCTV inspections of sewer lines	17,679
Off Road Jetter Trailer – Custom Built	5,630
Laptops (2)	5,160
Total	28,469

### Water District Fixed Assets (>\$5,000)

Project	Cost
New Service Truck (Chevy 2500)	31,811
Totals	31,811

# Capital Projects Completed (Total Value > \$5,000)

### **Sewer District Capital Projects**

Project ID #	Project	2021 Expenses	Prior Year Expenses	Total Project Expenses
BO-19-01	Bolivar Lift Station Upgrade	126,545	127,111	253,656
MC-18-02	Mineral City – High St. Sewer Rehabilitation	197,061	22,149	219,210
SUB-WH-20-01	Olde Hilltop Subdivision – Acceptance of Donated Sewer Facilities	68,129	0	68,129
WH-21-01	Wilkshire Hills WWTP RAS/WAS and Electrical Improvements	12,466	0	12,466
XR-21-03	Welton Road Sanitary Sewer Improvements	32,282	0	32,282
SR-MISC	Brightwood Pump Station Rehab	5,561	0	5,561
	Total	442,044	149,260	591,304

### Water District

Project ID #	Project	2021 Expenses	Prior Year Expenses	Total Project Expenses
DD-20-01	Dundee Tank #1 and WTP Filter Train #1 Rehabilitation	206,217	8,997	215,214
SUB-WH-20-01	Olde Hilltop Subdivision – Acceptance of Donated Water Facilities	61,036	0	61,036
WH-18-01	Wilkshire Hills Well Field – Land Acquisition Project	85,735	30,086	115,821
WW-20-01	Wainwright Booster Station Modification	20,062	0	20,062
XR-21-01	Eight Corner School House Waterline Extension	29,632	0	29,632
	Total	402,682	39,083	441,765

# Construction in Progress (Total Project Value > \$5,000)

### **Sewer District Capital Projects**

Project ID #	Project	2021 Expenses	Prior Year Expenses	Total Expenses to Date	Estimated Project Cost
MB-20-01	Midvale Streambank Stabilization & Manhole Removal	9,275	0	9,275	10,000
MC-20-01	Mineral City – S. High St Ext. Sanitary Sewer Replacement	4,063	4,416	8,479	260,000
PW-20-01	Port Washington Sewer Rehabilitation Project	899	0	899	238,000
WH-19-03	Old Orchard #3 Sewer Rehabilitation Project	64,849	804	65,653	81,338
WH-20-01	Wilkshire Hills WWTP – Phase II Improvements	10,920	254	11,174	2,350,000
RW-21-01	Roswell Sanitary Sewer System	408	0	408	2,800,000
SV-21-01	Sandyville Pump Station #3 Rehabilitation	21	0	21	380,000
	Total	90,435	5,474	95,909	6,119,338

#### Water District

Project ID #	Project	2021 Expenses	Prior Year Expenses	Total Expenses to Date	Estimated Project Cost
SV-20-01	Sandy Valley Estates Storage Tank Decommissioning	351	5,483	5,834	50,000
WH-19-05	Wilkshire Hills Water System Upgrade	15,991	292,459	308,450	4,310,000
WT-MISC	Hydrant Replacement Project – Materials	11,640	0	11,640	19,140
WT-MISC	Hydrant Replacement Project – Installation	0	0	0	8,132
SR-MISC	Sandyville Pump Station #2 – Fall Protection System	0	0	0	8,500
	Total	27,982	297,942	325,924	4,395,772

### Capital Financing/Grants

### **Sewer District**

Project	Project Name	Funding	Funding	Amount
Number		Source/ID#	Type	Disbursed
BO-19-01	Bolivar Pump Station Upgrade	OPWC/CN15W	Grant	113,607
MC-18-02	Mineral City – High St Sewer Rehab	OPWC/CN17V	Grant	189,506 <sup>11</sup>
WH-19-03	Old Orchard #3 Sewer Rehab Project	OPWC/CN25W	Grant	61,348
Grand Totals				364,461

#### **Water District**

Project	Project Name	Funding	Funding	Amount
Number		Source/ID#	Type	Disbursed
DD-20-01	Dundee Storage Tank/WTP Rehab	OPWC/CN21X	Grant	190,843
WH-19-05	Wilk Hills Water System Upgrade	OWDA/8648	Loan	14,500
<b>Grand Total</b>	Grand Totals			

### American Recovery Plan Act Funds

As part of the American Rescue Plan Act of 2021 ("Act"), the federal government established the State and Local Fiscal Recovery Fund, which included \$130 billion for local governments, of which, approximately \$18 million dollars was allocated to Tuscarawas County. Through the Act, these funds are intended to be used by communities to enable them to continue to support the public health response to the COVID-19 pandemic and lay the foundation for a strong and equitable economic recovery. In addition to helping local governments address the revenue losses they have experienced as a result of the crisis, it will help them cover the costs incurred due responding to the public health emergency and provide support for a recovery – including through assistance to households, small businesses and nonprofits, aid to impacted industries, and support for essential workers. It also

<sup>&</sup>lt;sup>11</sup> A reimbursement of \$2,764.85 is still owed to the County from OPWC

provides resources for state, local, and Tribal governments to invest in infrastructure, including water, sewer, and broadband services.

On November 3, 2021, the Sanitary Engineer submitted a request for a \$3.6 million investment in improvements to the County's Water and Wastewater Systems to the Tuscarawas County Commissioners for consideration. These funds will be used for improving the County's Centralized Wastewater Treatment Facilities, Wastewater Collection and Conveyance Facilities, Drinking Water Treatment Facilities, Drinking Water Sources, and Drinking Water Transmission and Distribution Facilities. These projects will provide a direct benefit to numerous unincorporated areas throughout the County, as well as a number of incorporated Communities. The proposed improvements will serve to promote and protect the public health and safety, and to ensure the County continues to provide water and wastewater service in a cost-effective manner for all of its users.

The Commissioners subsequently approved the request for funds from the Sanitary Engineer. The list of approved projects is summarized as follows:

Project ID	Project Name	Project Cost	ARP Amount
#			
PW-20-01	Port Washington Sewer Rehabilitation Project	\$226,723	\$112,000
WH-19-05	Wilkshire Hills Water System Upgrade	\$4,310,000	\$520,000
WH-20-01	Wilkshire Hills WWTP Upgrade - Phase II	\$2,350,000	\$1,826,000
WH-21-01	North Orchard/Old Orchard Waterline	\$779,900	\$729,000
	Replacement		
WH-21-03	Various Sewer Rehabilitation Projects	\$600,000	\$40,000
MC-21-01	Mineral City WWTP - Headworks Building	\$200,000	\$20,000
	Improvements		
BO-21-01	Bolivar - Secondary Feed Line	\$150,000	\$20,000
MB-21-01	Midvale/Barnhill - SSES & Sewer Rehab Project	\$3,000,000	\$100,000
SC-21-01	Stone Creek WWTP Replacement	\$600,000	\$50,000
ZV-21-01	Zoarville/Mineral City Waterline Loop	\$500,000	\$40,000
SV-21-02	SR 800 Waterline Replacement	\$350,000	\$25,000
SV-21-05	German Cemetery Waterline Loop	\$350,000	\$25,000
PW-21-01	Port Main Pump Station - Generator/ATS	\$100,000	\$100,000
Total		\$13,516,622.60	\$3,607,000.00

Sewer District - Key Financial Performance Indicators

Sewer District – Key Financial Performance Indicators							
Financial Performance Indicator	Goal	2021	2020	201912	2018	2017	
Operating Ratio, including depreciation  Measures the profitability of the system.  It shows whether the revenues from sales are sufficient to cover the cost of operations (O&M) and depreciation, which is used here as a surrogate for capital needs.	>1.20	1.15	0.98	0.94	0.83	1.02	
Operating Ratio, not including depreciation  Measures whether the revenues from sales are sufficient to cover just the cost of operations and maintenance (without any consideration for capital expenses).	>1.50	1.65	1.32	1.19	1.04	1.33	
Debt Service Coverage Ratio  Measures the ability to pay debt service with operating revenue. This means that after paying off operating and maintenance costs, adequate funds remain to pay existing debt service.	>1.20	1.86	1.30	0.78	0.21	1.47	
Quick Ratio  Measures short-term liquidity: the system's ability to pay its bills with its unrestricted assets on the day the financial statements are recorded.	>2.00	2.62	2.60	2.85	1.43	1.69	
Days Cash on Hand  Measures the ability of the system to weather a significant temporary reduction in revenue to continue paying for daily operations and maintenance.	>60	247	173	105	112	190	
Percent Capital Assets Depreciated An indicator that measures how much of the assessed value of all depreciable assets has already been depreciated.	<50%	43%	42%	46%	44%		
Operating Cost Ratio (\$/EDU)  Quantifies utility costs related to operations and maintenance normalized to cost per account. (Includes depreciation)	AWWA Median \$635 <sup>13</sup>	\$430	\$375	\$420			

<sup>&</sup>lt;sup>12</sup> Rates were increased approximately 5.8% effective January 1, 2020 to address shortfalls in Sewer District operating revenues <sup>13</sup> Based on AWWA Benchmarking Report, 2011 for systems with service population 0-10,000 and adjusted for inflation (3% per year)

Water District - Key Financial Performance Indicators

Financial Performance Indicator	Goal	2021	2020	2019	2018	2017
Operating Ratio, including depreciation  Measures the profitability of the system.  It shows whether the revenues from sales are sufficient to cover the cost of operations (O&M) and depreciation, which is used here as a surrogate for capital needs.	>1.20	1.43	1.17	1.16	1.28	1.30
Operating Ratio, not including depreciation  Measures whether the revenues from sales are sufficient to cover just the cost of operations and maintenance (without any consideration for capital expenses).	>1.50	2.11	1.58	1.55	1.72	1.72
Debt Service Coverage Ratio Measures the ability to pay debt service with operating revenue. This means that after paying off operating and maintenance costs, adequate funds remain to pay existing debt service.	>1.20	2.07 <sup>14</sup>	1.27	1.33	1.41	1.45
Quick Ratio  Measures short-term liquidity: the system's ability to pay its bills with its unrestricted assets on the day the financial statements are recorded.	>2.00	3.20	3.60	3.62	2.88	2.83
Days Cash on Hand  Measures the ability of the system to weather a significant temporary reduction in revenue to continue paying for daily operations and maintenance.	>60	513	333	266	316	321
Percent Capital Assets Depreciated  An indicator that measures how much of the assessed value of all depreciable assets has already been depreciated.	<50%	24%	27%	28%	26%	24%
Operating Cost Ratio (\$/EDU)  Quantifies utility costs related to operations and maintenance normalized to cost per account. (Includes depreciation)	AWWA Median \$635 <sup>15</sup>	\$358	\$336	\$369		

Higher than normal as we were able to "skip" one annual payment on the Sandyville Water System loan due to refinancing through OWDA.

Based on AWWA Benchmarking Report, 2011 for systems with service population 0-10,000 and adjusted for inflation (3% per year)

### **CAPITAL ASSET INFORMATION**

### **Estimated Replacement Cost of Assets**

This estimate includes the Sanitary Engineer's estimate of construction, engineering, and non-construction costs at current year prices.

### **Sewer System Facilities**

Item	Quantity	Unit of Measure	Total Estimated Replacement Cost
Gravity Sewer Mains	77	Miles	48,978,000
Sewer Force Mains	11	Miles	4,208,500
Sanitary Manholes	1451	Each	8,706,000
Pump Stations	22	Each	4,125,000
Septic Tanks	502	Each	3,012,000
Wilkshire Hills WWTP (0.75 MGD)	1	Lump	7,800,000
Sandyville WWTP (0.50 MGD)	1	Lump	6,500,000
Mineral City WWTP (0.15 MGD)	1	Lump	3,250,000
Stone Creek WWTP (0.03 MGD)	1	Lump	750,000
Kerr WWTP (0.008 MGD)	1	Lump	125,000
Main Office (60% of total cost)	1	Lump	1,500,000
Total			88,954,500

### **Water System Facilities**

Item	Quantity	Unit of Measure	Total Estimated Replacement Cost
Water Mains	79	Miles	30,021,500
Service Branches (main to curb box/meter pit)	12	Miles	1,950,000
Meter Pits including Meters	600	Each	1,080,000
Meters, Inside Settings	2000	Each	1,200,000
Fire Hydrants, including anchor pipe and watch valve	414	Each	3,975,000
Main Line Valves	490	Each	1,176,000
Ground Storage Tank, <200,000 gallons	4	Each	1,200,000
Ground Storage Tank, 200,000 to 250,000 gallons	3	Each	1,800,000
Ground Storage Tank, 500,000 gallons	1	Each	900,000
Multi-Column Storage Tank, 150,000 gallons	1	Each	840,000
Booster Station, 100 to 250 gpm, with generator	2	Each	625,000
Booster Station, 100 to 250 gpm, no generator	1	Each	250,000
Small Booster Station <50 gpm	2	Each	150,000
Water Treatment Plant & Wells < 0.1 MGD	1	Each	750,000
Water Treatment Plant & Wells ~ 0.75 MGD	1	Each	2,000,000
Main Office (40% of total cost)	1	Each	1,000,000
Total			48,917,500

Total Estimated Replacement Value of Water and Sewer Assets:

137,872,000

### **BENCHMARKING INFORMATION**

# **Operational Statistics**

Operational Statistics	2021	2020	2019	2018	2017
	2021	2020	2017	2010	2017
Alarms (Water & Sewer)	2,070	1,645	2,047	1,335	2,507
OUPS Marking Requests	3,657	3,789	3,831	5,904	4,668
o or o management	2,007	3,767	5,001	5,701	2,000
Water System Operating Statistics					
Number of Customers	2,530	2,511	2,521		
Residential Equivalents	3,030	2,696	2,706		
Equivalent Population Served	$7,545^{16}$	6,740	6,765		
Number of New Connections Activated	18	12	62	8	14
Million Gallons Water Produced	190.59	187.80	179.73	179.41	189.05
Million Gallons Water Sold	130.22	129.07	128.85	131.32	130.71
Percent Non-Revenue Water, %	32	31	30	27	31
EPA Violations / Out of Compliance	0	1 <sup>17</sup>	0	0	0
LIA Violations / Out of Compilance	0	1	U	0	U
Water Main Breaks	11	10	9	8	6
Per 100 miles of pipe	14	16	14	12	9
AWWA Median	33.5	33.5	33.5	33.5	33.5
Service Line Breaks	11	7	11	37	14
Hydrants Repaired	8	8	0	8	7
Hydrants Replaced	1	3	2	0	1
Mn-Related Service Complaints	29	20	13	15	23
D ((m) D ( )		<b>6.0</b>			ć 0.5
Full-Time Equivalents	6	6.3	6.5	6.5	6.25
Number of Vehicles	9	9	12	12	9
Sewer District Operating Statistics					
bewer District Operating Statistics					
Number of Customers	3,370	3,36218	3,594		
Number of Residential Equivalents	4,526	4,515	4,780		
Equivalent Population	11,270	11,288	11,950		
•		·	,		
Number of Tap-Ins	15	10	9	6	10
MC Treated at Courte WIVED	200 55	252 12	277 41	270 10	220.0
MG Treated at County WWTPs	290.55	353.13 0 <sup>19</sup>	377.41	378.10	328.9
Screenings Disposed in Landfill, tons		U	42.38	46.47	66.59
Sludge Disposal (Landfill)  Transported to Landfill, wet tons	342.49	472.04	267.06	212 20	257.07
Actual Weight of Solids, dry tons		472.04	267.06	213.30	357.97
Actual weight of Solias, ary tons	48.86	59.18	35.60	30.20	48.45

Using an average household size of 2.49 multiplied by the number of EDUsReporting violation for TTHM. District reported results after specified deadline.

<sup>&</sup>lt;sup>19</sup> No longer tracked separately. Screenings are combined in the same roll-off container with dewatered sludge.

	2021	2020	2019	2018	2017
Average Solids Concentration, %	14.5	12.53	12.85	14.0	13.5
Sanitary Sewer Overflows (SSOs)	0	3	4	5	4
SSOs per 100 miles of pipe	0	3.6	4.4	5.6	4.4
AWWA Median (Benchmark)	2.5	2.5	2.5	2.5	2.5
Water-in-Basements (WIBs)	2	8	5	4	4
Sewer Line Video Inspection, feet	10,539	22,424	5,743	14,918	10,000
Sewer Line Cleaning, feet	4,167	10,030	3,460	13,418	6,000
Septic Tanks Inspected	76				
Septic Tanks Cleaned	18	55	47	26	28
Number of Manhole Inspections	27	80	26	124	N/A
Full-Time Equivalents	10.5	10.8	10.5	10.5	10.5
Number of Vehicles	10	10	9	12	12
Miles of Gravity Sewer	77	84	84	90	90
Miles of Force Main	11				
Wastewater Treatment Facilities	5	5	5	5	5
Pumping Stations	2220	23	23	25	25
Grinder Pump Stations	10				
Septic Tanks	502				
Miles of Waterlines	79 <sup>21</sup>	64	64	66	66
Reservoirs	9	9	9	10	10
Water Treatment Facilities	3	3	3	4	4
Pumping Stations	5	5	5	5	5

# Fleet and Fuel Management Summary

	2021	2020	2019	2018	2017
Non-CDL Vehicles	15	15	17	17	N/A
CDL Vehicles (Tankers, Vactor, Dump)	4	4	3	4	N/A
Mileage					
Miles Drive, Water District	79,776	84,159	86,396	75,560	79,854
Miles Driven, Sewer District	83,955	123,591	89,080	84,069	85,111
Miles Driven, Total	163,731	207,750	176,016	159,629	164,966
Fuel					
Gasoline Used, gallons	13,847	15,513	16,453	14,970	15,012
Diesel (Clear) Used, gallons	2,201	4,767	-	2,088	3,261
Diesel (Dyed) Used, gallons	-	-	-	2,895	N/A
Diesel (Ultra) Used, gallons	-	-	4,051	333	N/A
Propane-Stone Creek WWTP, gallons	1,645	1,554	2,089	3,631	N/A
Total Vehicle Maintenance Cost	26,329	32,562	32,212	32,692	37,380

Prior year total was the result of an error in the GIS database

1 Increase is result of updates/corrections made to the GIS database. This work is ongoing and additional revisions expected over the course of the next few years.