

Mount Joy Borough Authority 2017 Annual Report



Mount Joy Borough Authority

2016 Annual Report

TABLE OF CONTENTS

Table of Contents, Replacing your Curb of Sidewalk, SwiftReach	Page 2
A Message from the Authority Board Chairman	Page 3
Board of Directors & Officers, Authority Staff	Page 4
Authority Staff	Page 5
Authority Administrator's Message	Page 6
Authority Grant Awarded, Regulations Regarding Water Main Breaks	Page 7
Water & Sewer Rate Increase, PA One Call	Page 8
Things You Can Do to Prevent Water Waste	Page 9
About Lead & Copper, The Current State of Your Water	Page 10
A Few Things to Check, Work Orders	Page 11
Recently Completed & Current Projects	Page 12
Consumer Confidence Report	Page 13-16
Wastewater System Budget	Page 17
Water System Budget	Page 18
Service Area Map	Page 19

Are You Replacing Your Curb and/or Sidewalk?

While your sidewalk contractor is removing your old sidewalk, it is very wise to dig a little further to check the condition of your water service line. If it is a galvanized line, you should consider replacing it with new copper line before spending the money on your new sidewalk knowing an old water line is located under it.

Many times shortly after pouring the new concrete sidewalk, the disturbance from the construction causes the old line to leak resulting in the new sidewalk having to be dug up. If you have your contractor carefully expose the water line, Authority staff will be happy to inspect it free of charge.

Also, your contractor should be sure that the curb valve box is perfectly straight and over the valve. In order not to pour concrete against the curb box lid, wrapping duct tape around the lid works well.

If you are planning any curb and sidewalk replacement and are unsure of your situation relative to your water line, feel free to contact the Authority Office for assistance.



Mount Joy Borough Authority has contracted with SWIFT Reach Network to have an immediate response mechanism to alert you of any important news relative to your water/sewer service. Currently we have basic information for most property owners. You are able to access this file to add/change items, such as cell phone or other electronic devices such as e-mail. Please visit mountjoy-borough.com and click on the link to the left that says "Police", then follow to the link that says "Swift 911 Emergency" to submit your information electronically. This system will also be available for use by the Borough and Police Department to alert you of emergencies. If you do not have internet access, please call the Authority Office at 717-653-5938 so we can update your information for you.



A Message From The Authority Board Chairman

As you will see, the 2017 Annual Report will highlight both a busy and exciting year for Mount Joy Borough Authority (MJBA).

During this year, the South Jacob Street Water Plant project is slated to begin. This project will take approximately 18 months to complete and will offer our customers an added benefit of reliability. As in previous years the Authority will also be undertaking an in-house water main replacement project. MJBA staff will be replacing a water main on New Haven Street between the intersections of Marietta Ave & West Donegal Street, which is projected to begin in early June.

Daily operations of the water & wastewater facilities are conducted by highly trained operators that have acquired licenses through PA Dep. Our operators are required to continue their education even after licensing; this assists them with the ever evolving technology, new discharge requirements and the skills needed to maintain a properly functioning system. As of this date, we have a total of eleven employees that have a license in water, wastewater or both and encourage its remaining employees to accomplish this status.

Throughout this report, you will again see that our water & wastewater systems continue to grow and evolve. MJBA's Board of Directors & Officers will continue its efforts in providing a service that meets all state and federal requirements and steer the Authority in a direction that is beneficial to its purpose and customers.

I encourage you as a customer to read through the articles and reports contained within this Consumer Confidence Report. See below the current status of our employees pertaining to their PA Dep licensing.

<u>Name</u>	<u>Position</u>	<u>Certification/Licensing</u>
John Leaman	Authority Manager	Water and Sewer License
Joe Ardini	Assistant Authority Manager	Water and Sewer License
Barry Geltmacher	Chief Operator/Water Plant	Water License
Scott Kling	Operator/Water Plant	Water License
Zachary Dennis	Operator/Water Plant	Water and Sewer License
Scott Kapcsos	Project Administrator/Inspector	Water License
Jim Zink	Construction/Water Plant	Water License
Jason Bowers	Construction/Water Plant	Water License in process
Dennis Hardman	Chief Operator/Sewer Plant	Sewer License
Gary Karichner	Operator/Sewer Plant	Sewer License
Ralph Eckels	Operator/Sewer Plant	Water and Sewer License
David Piatt	Operator/Sewer Plant	Water and Sewer License
Bret Babula	Construction/Sewer Plant	Sewer License in Process

Board of Directors & Officers

Back Left to Right:
Richard Hamm, Robert Golicher,
Christopher Metzler

Front Left to Right:
John D. Rebman, Larry Derr

The Board of Directors & Officers meet on the first and third Tuesday of each month at 4 PM.



Mount Joy Borough Authority Staff

Administration



(Pictured from left to right)

Lindsey Edgell
Administrative Assistant- 15 yrs

John Leaman
Administrator/Manager (W-A1 / S-A1) - 31 yrs

Joe Ardini
Assistant Authority Manager
(S-A1 /W-A1) - 20 yrs

Angie Fenicle
Business Manager- 18 yrs

Mount Joy Borough Authority Staff

Water Department



Wastewater/Construction Department



A Message From The Authority Administrator John Leaman

The Mount Joy Borough Authority (Authority) is an "operating authority" providing water and wastewater services to over 4,840 commercial, industrial and residential accounts. The population served is approximately 14,600 people from Mount Joy Borough and portions of Mount Joy, East Donegal and Rapho Townships.

The Authority provides two separate services to our customers, one is to provide a safe potable supply of water to meet daily demand and the second is an effective treatment of wastewater to comply with state and federal regulations. In addition to the water and wastewater treatment plants, the Authority operates, maintains and upgrades the water distribution system and wastewater collection system. The Authority's service area map is shown on the inside of the back cover.

Each year I provide our customers with information on projects relating to the wastewater and water systems which have been completed during the year, currently being constructed or are slated for future projects. In addition to the needs of the Authority's facilities for regulatory compliance or efficiency improvements the Authority also has the duty to continue upgrades to the water distribution and sewer collections systems. A sizable portion of the water system is cast iron water mains and the sewer system is terra-cotta piping. Excluding the newer developments within the system, a sizable portion of the water and sewer piping were installed 60 to 70 years ago. The projects the Authority undertakes must be made to continue to improve operations and service today as well as for future demands.

Early in 2016, the replacement of Pump Station #2 was finished and the new station was put into operations. By early summer the project was totally completed with paving and final grading of the site. Another sewer improvement project included the lining of approximately 900 feet of sewer main. The lining process of a sewer main involves the installation of a fiberglass resin product which forms to the inside diameter of the sewer main and provides renewed structure integrity to the existing main thereby minimizing the costs associated with excavation and replacement of the sewer main.

A small water main improvement project of 400 feet of pipe was completed off Range Road in Mount Joy Township. The project was completed by Authority staff which minimized the costs of the upgrade.

As stated in previous annual reports the Authority has been actively working on a new water treatment plant. The new facility will have treatment processes which include membrane filtration, nitrate reduction, softening and disinfection. The facility will be constructed on Authority property on South Jacob Street which is the same location where the Borough's compost operations are staged. The site will be configured to permit both operations to function.

The Authority secured the municipal bond financing required for the project towards the end of 2016. The debt service associated with the borrowing will be phased in over a 5-year period to provide the Authority the opportunity to adjust water rates in more of a controlled manner.

The design of the plant was completed by ARRO Consulting in the fall. The next step was to have the project approved for a construction permit by PA DEP, this was received in January 2017. The project was publicly advertised and went out for bidding. It is anticipated the project will be awarded in June 2017. Approximately 15 months are expected for the construction of the facility at which time the plant will be available for operation.

This new facility will provide the community with benefits which will include increased capacity, the flexibility to complete improvements to the existing Carmany Road Plant and a new well which will be located in a separate aquifer from Wells 1 & 2. The Authority continues to explore for additional water sources which will provide a layer of safety to our customers in the event a water supply was to be compromised.

This year the water distribution system will see two water main improvements, the first will involve an upgrade to 350 feet of water main on W. Main Street, the second is the upgrade to the water main on New Haven Street. Both projects will be completed by Authority staff to minimize cost expenditures. The improvement on New Haven Street will connect on either end to water mains previously replaced on Marietta Avenue and West Donegal Street.

The Authority board and staff never want to lose sight of what is most important, that is you our customers. Our goal is to provide a system that will permit uninterrupted service to you and future generations. We can do this in an environment that is heavily regulated by State and Federal Agencies. We encourage you to contact us at any time with questions or suggestions. I can be reached at the Mount Joy Municipal Center by phone at 653-5938 or by e-mail at john@mountjoypa.org.

Respectfully,
John Leaman, Authority Administrator

Authority Receives Notice of Award of Grant for Project



The Authority pursues grant opportunities when available to help offset costs for upgrades to the water and/or wastewater system, such as, the grant awarded in the amount of \$700,000 for the Water Booster Station Project completed in 2015. As would be expected with limited grant opportunities, when a program becomes available it generates a highly competitive environment with applicant funding requests usually greatly exceeding the limited pool of funds available. In August 2016, a grant opportunity came available through the Commonwealth Financing Authority (CFA) and administered through the Department of Community & Economic Development (DCED). The grant was identified under the PA Small Water and Sewer Program.

The Authority Board had previously updated their Capital Improvement Plan (CAP) and as part of the plan identified the need to rehabilitate the nitrate system at the Carmany Road Water Plant. With an identified project that qualified under the conditions of the grant, Authority staff put together the required application and documents, and submitted the project for consideration. The submission also included endorsement letters for the project from Senator Aument, Representative Hickernell and former Congressman Pitts. In January 2017, the Authority received notice that the application was selected as one of the projects to receive funding. The amount approved for the Authority's nitrate project is in the amount of \$268,380.

The project will involve the removal of the resin within the three tanks, inspection, and if necessary, the replacement of any internal piping, lastly the installation of new resin to provide the nitrate process with many years of treatment capability and reliability for the customers.

Regulations from DEP Regarding Water Main Breaks

There is very specific protocol required by DEP (Department of Environmental Protection) when a water main break occurs. Depending on how and what type of break happens, precautionary boil notices will be put out. When you see the boil notice, there isn't necessarily a problem; we are just following DEP protocol. Please feel free to contact the Mount Joy Borough Authority at 653-5938 if you see a boil notice and have any questions.



Water & Sewer Rate Increase Effective 5/1/2017



Mount Joy Borough Authority strives to keep water and sewer rates as low as it will allow. MJBA also continues to stay in compliance with the Chesapeake Bay Regulations which may, in future plans, raise these rates. MJBA and its staff, continue to maintain accurate service for its service district, which includes Mount Joy Borough, and portions of Mount Joy, East Donegal and Rapho Townships.

Water: \$58.16/ first 8,000 gallons used each quarter
Sewer: \$70.47/ first 8,000 gallons used each quarter

- \$7.27 is applied to each 1,000 gallons over the 8,000 gallons for water, but only up to 30,000 gallons, then the rates change.
- \$8.81 is applied to each 1,000 gallons over the 8,000 gallons for sewer, but only up to 30,000 gallons, then the rates change.

Example of an 8,000 gallon minimum quarterly water and sewer bill:

-Prior to May 1, 2017: \$122.32 -New Rate Effective May 1, 2017: \$128.63

Example of a 12,000 gallon average quarterly water and sewer bill:

-Prior to May 1, 2017: \$183.48 -New Rate Effective May 1, 2017: \$192.95

Complete rate schedule can be found at www.mountjoyborough.com.

**ALWAYS
CALL
BEFORE YOU
DIG**



Mount Joy Borough Authority protects its utility lines by marking with paint and flags, the locations of the sewer and water lines that lie under the surface of the streets. This usually occurs when a contractor needs to dig in the street or yard to perform some type of work. It is also important for residents to locate such utility lines to help protect yourself from injury and expense. All utility markings are color coded in which for Sewers and Drain Lines are **GREEN** and Potable Water Lines are **BLUE**. Below you can view the rest of the utility color coded markings. For more information, you can visit, call811.com.

WHITE Proposed Excavation

RED Electric Power Lines, Cables, Conduit & Lighting Cables

PINK Temporary Survey Markings

YELLOW Gas, Oil, Steam, Petroleum or Gaseous Materials

BLUE Potable Water

ORANGE Communication, Alarm, Signal Lines, Cables, Conduit

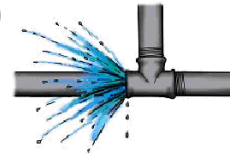
GREEN Sewers and Drain Lines

PURPLE Reclaimed Water, Irrigation and Slurry Lines

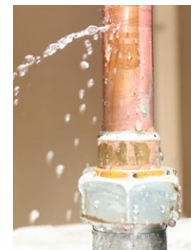
Things You Can Do To Prevent Water Waste



• Check your toilets for leaks. (Put food coloring in your toilet tank. If, without flushing, the color begins to appear in the bowl, you have a leak that should be repaired.)



- Replace older toilets with efficient water saving toilets.
- Check all faucets, pipes, hoses and couplings for leaks inside and outside of your home. (Leaks outside the house may not seem as bad because they're not as visible. They can be just as wasteful as leaks inside.)
- Rinse your razor in the sink.
- Turn off the water after you wet your toothbrush.
- Use your automatic dishwasher and washing machine only for full loads.
- If you wash dishes by hand, don't leave the water running for rinsing.
- Don't let the faucet run while cleaning vegetables.
- Keep a bottle of drinking water in the refrigerator.
- Water you lawn only when it needs it.
- Deep-soak your lawn. Water during the cool parts of the day. (Early morning is better than dusk because it helps prevent growth of fungus.)
- Plant drought-resistant trees and plants.
- Put a layer of mulch around trees and plants. (Mulch slows evaporation of moisture and discourages weed growth.)
- Don't water the gutter.
- Use a broom, not a hose, to clean driveways and sidewalks.
- Don't run the hose while washing your car.
- Tell your children not to play with the hose and sprinklers.
- Take shorter showers.
- Install water-saving showerheads or flow restrictors.
- Take baths.



Dude, you are wasting our precious water!



About Lead & Copper



We believe our customers need to know that MJBA does take adequate steps in supplying a drinking water that complies with PA Dep and EPA contaminant levels for Lead & Copper.

Lead & Copper are usually not contaminants contained in the water we utilize from our wells or during the treatment process; these contaminants can come from galvanized service lines, interior piping, brass fittings installed prior to 2014 and older soldered pipe fittings. Water sitting in an unused or rarely used line creates the potential for Lead and Copper contaminants to leach into the water. Flushing the line for 30 seconds to 1 minute before consuming or cooking with the water will reduce the potential for these contaminants.

MJBA is required to sample the distribution system on a 3 year testing cycle; in 2016 MJBA conducted sampling of 30 sites within the system due to our customer base. MJBA had no sites that exceeded concentrations over the Action Levels; the results from the 2016 sampling are contained in the annual consumer confidence report which can be viewed on our website at www.mountjoyborough.com. Subcategory Mount Joy Borough Authority Announcements / Notices.

As always, feel free to contact us if you have any questions or concerns.

The Current State of your Water & Wastewater Systems

What is the current water & wastewater system comprised of?

The water supply is currently made up of two wells that provide raw water from the same aquifer to the Carmany Road Treatment plant. After the water is pumped to the plant the process of filtration, softening, nitrate reduction and disinfection are completed. The next step consists of approximately 1.037 million gallons of potable water being pumped into more than 68 miles of water distribution system and three storage tanks which combined hold over 3 million gallons of water. The water in the distribution system provides service to all 4,840 connections and supplies water for fire protection to more than 490 fire hydrants. In addition, there is a water booster station located in the distribution system to increase pressure in the western part of the community.

The wastewater system consists of more than 67 miles of sewer mains with more than 1,360 man-holes. Approximately 20 percent of the daily generated wastewater flows to the wastewater plant by gravity, the remaining 80 percent is conveyed to the plant by 8 different sewage pump stations located throughout the collection system. Once at the plant the approximate 893,000 gallons of wastewater is treated by grit removal, clarifier sedimentation, alum addition, final clarification, methanol addition for nitrogen reduction, filtration and the disinfection process prior to being discharged into the Little Chiques Creek. In 2016, the wastewater treatment plant removed more than 939 dry tons of Class A bio-solids, which some local area farming operations utilize to offset nutrient needs of the soils.

A Few Things to Check...

As we start with the outside cleanup from this past winter, now would be a good time to also check a few items you might not have thought of yet. If you have an outside spigot coming through your wall, verify that cold weather over the winter did not damage the fixture. Connect your garden hose with a spray nozzle to the outside spigot and run some water through the hose, then while leaving the spigot valve on, listen and look for any possible water leaking inside or outside the home. Another item sometimes overlooked would be the vent cap on your sewer line. If you have a vent cap, make sure it is clear of debris around the cap, attached firmly to the pipe and that the pipe does not appear to be broken. Although these two suggestions may seem minimal, finding a possible issue early is always better than finding one after the fact.



Work Orders

Meters are read four times per year, typically in February, May, August and November. Each quarter when this is completed there are always a few meters that did not read for various reasons. When this happens this will require a work order be generated for each of those particular properties. Once a work order is created, one of the Mount Joy Borough Authority employees will come out to look at the problem and fix it. Each employee will always have proper identification on them so you can verify that they are in fact an employee of Mount Joy Borough Authority. If you ever have any questions about this please do not hesitate to call the office at 653-5938.

**Example
of
Work Order**

Mount Joy Borough Authority Meter Repair Order		
CUSTOMER INFORMATION	WORK PERFORMED	
Name:		
Address:		
City: Mount Joy State: PA Zip: 17552		
Account No:		
Meter No:		
MXU No:		
Previous Reading:		
CURRENT PROBLEMS		
Return To:		
Date:		
Signature:		
I, _____ represent and acknowledge in allowing and consenting to the entry of Mount Joy Borough Authority employees onto the property identified on this document that I am: (1) the owner of the property or a duly authorized representative of the property owner, (2) I have the authority to grant this access, and (3) I am of legal age to grant this access.		
Signature of Person Named Above _____		
Signature Mount Joy Borough Authority Employee _____		

Recently Completed & Current Projects

WATER TREATMENT & DISTRIBUTION SYSTEMS

Commercial
Industrial &
Public
Water Meter
Replacement
(Completed)



Mixed Use
Water Meter
Replacement
(Current)



New Haven Street

- Progress on Well #3 and new Water Plant (Current)
- New Haven Street and W. Main Street Water Main Replacement (Current)
- Hydrant Markers (Current)

SANITARY SEWER SYSTEM & COLLECTION SYSTEM



AFTER

**SEWER LINING
(Completed)**



**Sewer Main Flushing
and Televising
(Current)**

2016 ANNUAL DRINKING WATER QUALITY REPORT

MOUNT JOY BOROUGH AUTHORITY

PWSID# 7360091

Este informe contiene información muy importante sobre su agua de beber. Tradúzcalo ó hable con alguien que lo entienda bien. (This report contains very important information about your drinking water. Translate it, or speak with someone who understands it.)

WATER SYSTEM INFORMATION:

This report represents the Mount Joy Borough Authority and shows our water quality and what it means. The Mount Joy Borough Authority's public water system identification number (PWSID) is 7360091. If you have any questions about this report or concerning your water utility, please contact John Leaman, Authority Manager or Joe Ardini, Assistant Authority Manager at the Mount Joy Borough Authority office. The phone number is 653-5938. We want you to be informed about your water supply, if you want to learn more, please attend any of our regularly scheduled meetings. They meetings are held on the first and third Tuesday of each month at 4:00 p.m. at the Borough Municipal Center.

SOURCE WATER INFORMATION:

Our water supply is from two (2) production wells that pump to the Carmany Road Water Treatment Plant. The groundwater supplied by the wells comes from what is known as the Donegal Creek Drainage Basin; both wells and the treatment plant are in East Donegal Township. In addition to the Carmany Road Treatment Plant there is one (1) booster pumping station and three (3) water storage tanks. The average daily demand from the water treatment plant for 2016 was 1,037,000 gallons per day.

Water Assessment of our sources was completed in 2004 by the PA Department of Environmental Protection (PADEP). The Assessment has found that our sources are potentially most susceptible to ex. road deicing materials, accidental spills along roadways and railways, leaks in underground storage tanks and agriculture/residential spills. Overall, our sources have moderate risk of significant contamination. Summary reports of the Assessment are available by writing to the Mount Joy Borough Authority at P.O. Box 25 Mount Joy Pa. 17552 and will be available on the PADEP website at www.dep.state.pa.us (Keyword: "DEP source water"). Complete reports were distributed to municipalities, water supplier, local planning agencies and PADEP offices. Copies of the complete report are available for review at the PADEP South-central Regional Office, Records Management Unit at 717-705-4700.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

MONITORING YOUR WATER:

We routinely monitor for contaminants in your drinking water per federal and state laws. The following tables show the results of our monitoring for the period of January 1 to December 31, 2016. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data is from prior years in accordance with the Safe Drinking Water Act. The date has been noted on the sampling results table.

DEFINITIONS AND ABBREVIATIONS:

Action Level (AL) - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Minimum Reporting Level (MRL) – Detections below this level do not need to be reported.

Treatment Technique (TT) - A required process intended to reduce the level of a contaminant in drinking water.

Mrem/year = millirems per year (a measure of radiation absorbed by the body)

pCi/L = picocuries per liter (a measure of radioactivity)

ppb = parts per billion, or micrograms per liter (µg/L)

ppm = parts per million, or milligrams per liter (mg/L)

ppq = parts per quadrillion, or picograms per liter

ppt = parts per trillion, or nanograms per liter

DETECTED SAMPLE RESULTS:

Inorganic Contaminants	MCL In CCR Units	MCLG	Highest Level Detected	Range of Detections	Units	Violation Y/N	Sources of Contamination
Barium (2015)	2	2	0.015	- - -	ppm	N	Erosion of natural deposits.
Nitrate	10	10	5.2	3.9 – 5.2	ppm	N	Soil runoff

Synthetic Organic Contaminants	MCL In CCR Units	MCLG	Highest Level Detected	Range of Detections	Units	Violation Y/N	Sources of Contamination
Atrazine (ppb)	3	3	0.22	0 - 0.22	ppb	N	Runoff from herbicide used on row crops

Lead and Copper Rule

Contaminant	Action Level (AL)	MCL G	90 th Percentile Value	Units	# of Sites Above AL of Total Sites	Violation Of TT Y/N	Sources of Contamination
Lead 2016	15	0	4.27	ppb	0	N	Corrosion of household plumbing
Copper 2013	1.3	1.3	0.19	ppm	0	N	Corrosion of household plumbing

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Mount Joy Borough Authority is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your drinking water, testing methods and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

Disinfection Byproducts, Byproduct Precursors, and Disinfectant Residuals

Contaminants	MCL In CCR Units	MCLG	Highest Level Detected	Range of Detections	Units	Violation Y/N	Sources of Contamination
Haloacetic Acids (ppb)	60	n/a	6.8	0.0 – 6.8	ppb	N	By-product of drinking water disinfection
TTHMs [Total trihalomethanes] (ppb)	80	n/a	28.6	3.4 – 28.6	ppb	N	By-product of drinking water chlorination
Chlorine (in the distribution)	mrcl= 4	mrcl= 4	1.07	.7 – 1.07	ppm	N	Water additive used to control microbes

Entry Point Disinfectant Residual

Contaminant	Minimum Disinfectant Residual	Lowest Level Detected	Range of Detections	Units	Date of Lowest Detection	Violation Y/N	Sources of Contamination
Chlorine (at the water plant)	0.2	1.01	1.01 – 1.58	ppm	11/07/2016	N	Water additive used to control microbes.

Turbidity

Contaminant	MCL	MCLG	Level Found	Sample Date	Range Found	Violation Of TT Y/N	Source of Contamination
Turbidity	TT=1 NTU for a single measurement	0	.12 NTU	7/11/2016	.02 - .12 NTU	N	Soil run-off
	TT= at least 95% of monthly samples <0.3 NTU		100%	1/1/2016 - 12/31/2016	n/a	N	

Turbidity is a measure of the cloudiness of the water (in Nephelometric Turbidity Units). We monitor it because it is a good indicator of the effectiveness of our filtration system.

Total Organic Carbon

<u>Total Organic Carbon (TOC)</u>					
Contaminant	Range of % Removal Required	Range of percent removal achieved	Number of quarters out of compliance	Violation Y/N	Sources of Contamination
TOC	NA *	11% to 37%	0	N	Naturally present in the environment.

**Our raw water TOC levels are low enough that no removal is required, but our treatment system removes even those low levels of TOC.*

HEALTH EFFECTS:

No MCL's or treatment techniques were exceeded.

OTHER VIOLATIONS:

No Violations

EDUCATIONAL INFORMATION:

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider.
- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water run-off, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA and DEP prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA and DEP regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

OTHER INFORMATION:

Whether your tap water comes from surface or ground water, all drinking water sources are vulnerable to a variety of contaminants from a variety of activities. Preventing pollution is critical to protecting drinking water from contamination and reducing the need for costly treatment. Community involvement and individual action is the key to providing a safe supply of drinking water. Local Watershed Organizations greatly contribute to helping to clean up and preserve the water quality in our area streams.

REVENUES		
<u>Acct. No.</u>	<u>Description</u>	
08.364.601	Residential Sewer Service	\$ 2,064,400.00
08.364.602	Commercial Sewer Service	\$ 240,679.00
08.364.603	Industrial Sewer Service	\$ 116,661.00
08.364.604	Public / Other Sewer Service	\$ 114,400.00
08.364.605	Sewer Tapping / Connection Fees	\$ 75,000.00
08.364.606	Water Meter Sales	\$ 20,000.00
08.364.607	Quarterly Surcharge Fees	\$ 20,000.00
08.364.608	Misc Revenue / Reimbursements	\$ 5,000.00
08.364.609	Final Reading Fees	\$ 3,000.00
08.364.610	Interest Income	\$ 175.00
08.364.611	Lien Payoffs	\$ 300.00
08.364.612	Insurance Rebate	\$ 5,000.00
08.364.613	Energy Reimbursements	\$ 70,000.00
TOTAL REVENUES		\$ 2,734,615.00
EXPENSES		
ADMIN.		
<u>Acct. No.</u>	<u>Description</u>	
08.400.782	Authority Manager Wages	\$ 41,350.27
08.400.783	Operations Manager Wages	\$ 38,147.61
08.400.784	Business Manager Wages	\$ 26,148.06
08.400.785	Administrative Assistant	\$ 21,746.40
08.400.790	Authority Board Members	\$ 3,750.00
08.400.791	Pension	\$ 40,296.13
08.400.792	Water/Sewer Billing	\$ 10,000.00
08.400.793	Office Supplies	\$ 2,000.00
08.400.794	Communication Expense	\$ 3,500.00
08.400.795	Engineering	\$ 25,000.00
08.400.796	Trustee	\$ 3,000.00
08.400.797	Legal Expense	\$ 25,000.00
08.400.798	Liability / Worker's Comp Ins.	\$ 40,000.00
08.400.799	Health Insurance	\$ 235,533.84
08.400.800	Building Rental / Reimbursement	\$ 30,000.00
08.400.801	Auditor Expense	\$ 24,000.00
08.400.802	Uniforms	\$ 3,000.00
08.400.804	Payroll Taxes / Fees	\$ 45,000.00
08.400.806	General Expense	\$ 3,000.00
08.400.807	Dues / Memberships	\$ 5,000.00
08.400.808	Training	\$ 3,500.00
08.400.809	Bank Charges	\$ 600.00
08.400.810	Advertising / Printing	\$ 5,000.00
SUBTOTAL		\$ 634,572.31

COLLECTION EXPENSES		
<u>Acct. No.</u>	<u>Description</u>	
08.428.710	Wages	\$ 114,131.44
08.428.712	Supplies	\$ 2,325.00
08.428.714	Utilities	\$ 34,000.00
08.428.715	Equipment Maintenance	\$ 5,500.00
08.428.716	Repairs / Maintenance	\$ 38,000.00
08.428.717	Vehicle Expense	\$ 12,000.00
08.428.718	General Expense	\$ 1,000.00
08.428.719	Equipment Purchase / Tools	\$ 2,000.00
08.428.720	Service Connections	\$ 1,500.00
08.428.754	Meters	\$ 55,000.00
SUBTOTAL		\$ 265,456.44
TREATMENT & DISPOSAL EXPENSES		
<u>Acct. No.</u>	<u>Description</u>	
08.429.730	Wages	\$ 237,407.38
08.429.732	Bio-solids Hauling	\$ 30,600.00
08.429.733	Testing	\$ 12,000.00
08.429.734	Chemicals	\$ 196,000.00
08.429.735	Supplies / Lab Supplies	\$ 22,000.00
08.429.736	Utilities	\$ 165,000.00
08.429.737	Equipment Purchase / Tools	\$ 4,200.00
08.429.738	Plant Repairs / Maintenance	\$ 70,000.00
08.429.739	Equipment Maintenance	\$ 10,000.00
08.429.740	General Expense	\$ 6,500.00
08.429.742	Vehicle Expense	\$ 7,000.00
SUBTOTAL		\$ 760,707.38
TOTAL EXPENSES		\$ 1,660,736.14
DEBT SERVICE		\$ 993,366.76
FUND BALANCE FOR BRIF		\$ 80,512.10
TOTAL BUDGET		\$ 2,734,615.00

2017-2018

Mount Joy Borough Authority **Wastewater System Budget**

Revenues collected in excess of expenses paid and certain accruals are used for specific purpose of capital improvements to the Authority's sewer system and the payment of principal and interest on the Authority's outstanding debt.

REVENUES		
Acct. NO.	Description	
06.378.601	Residential Water Service	\$ 1,718,910.00
06.378.602	Commercial Water Service	\$ 227,880.00
06.378.603	Industrial Water Service	\$ 312,120.00
06.378.604	Public / Other Water Service	\$ 102,240.00
06.378.605	Water Tapping /Connection Fees	\$ -
06.378.606	Water Meter Sales	\$ 20,000.00
06.378.607	Lease / Rent Agreements	\$ 70,000.00
06.378.608	Misc Revenue / Reimbursements	\$ 5,000.00
06.378.609	Final Reading Fees	\$ 3,000.00
06.378.610	Interest Income	\$ 175.00
06.378.611	Lien Payoffs	\$ 300.00
06.378.612	Insurance Rebates	\$ 5,000.00
TOTAL REVENUES		\$ 2,464,625.00
EXPENSES		
ADMIN.		
Acct. NO.	Description	
06.400.782	Authority Manager Wages	\$ 41,350.27
06.400.783	Operations Manager Wages	\$ 38,147.61
06.400.784	Business Manager Wages	\$ 26,148.06
06.400.785	Administrative Assistant	\$ 21,746.40
06.400.790	Authority Board Members	\$ 3,750.00
06.400.791	Pension	\$ 40,296.13
06.400.792	Water/Sewer Billing	\$ 10,000.00
06.400.793	Office Supplies	\$ 2,000.00
06.400.794	Communication Expense	\$ 3,500.00
06.400.795	Engineering	\$ 30,000.00
06.400.796	Trustee	\$ 3,000.00
06.400.797	Legal Expense	\$ 25,000.00
06.400.798	Liability / Worker's Comp Ins.	\$ 40,000.00
06.400.799	Health Insurance	\$ 235,533.84
06.400.800	Building Rental / Reimbursement	\$ 30,000.00
06.400.801	Auditor Expense	\$ 24,000.00
06.400.802	Uniforms	\$ 3,000.00
06.400.804	Payroll Taxes / Fees	\$ 45,000.00
06.400.806	General Expense	\$ 3,000.00
06.400.807	Dues / Memberships	\$ 6,500.00
06.400.808	Training	\$ 3,500.00
06.400.809	Bank Charges	\$ 600.00
06.400.810	Advertising / Printing	\$ 5,000.00
SUBTOTAL		\$ 641,072.31

TREATMENT EXPENSES		
Acct. No.	Description	
06.448.702	Wages	\$ 182,958.81
06.448.703	Supplies & Lab Supplies	\$ 4,000.00
06.448.704	Testing	\$ 15,500.00
06.448.705	Repairs / Maintenance	\$ 82,000.00
06.448.706	Chemicals	\$ 140,000.00
06.448.707	General Expense	\$ 500.00
06.448.708	Vehicle Expense	\$ 7,000.00
06.448.709	Utilities	\$ 75,000.00
06.448.710	Equipment Purchases / Tools	\$ 4,475.00
06.448.711	Equipment Maintenance	\$ 2,000.00
SUBTOTAL		\$ 513,433.81
TRANSMISSION / DISTRIBUTION EXPENSES		
Acct. No.	Description	
06.449.752	Wages	\$ 114,131.44
06.449.753	Supplies	\$ 2,325.00
06.449.754	Meters	\$ 55,000.00
06.449.755	Fire Hydrant Expenses	\$ 12,000.00
06.449.756	Repairs / Maintenance	\$ 65,000.00
06.449.757	Equipment Maintenance	\$ 5,500.00
06.449.758	Equipment Purchases / Tools	\$ 2,000.00
06.449.759	Service Connections	\$ 1,500.00
06.449.760	Vehicle Expense	\$ 14,000.00
06.449.761	General Expense	\$ 1,000.00
06.449.762	Utilities	\$ 30,000.00
SUBTOTAL		\$ 302,456.44
TOTAL EXPENSES		\$ 1,456,962.57
DEBT SERVICE		\$ 726,456.50
FUND BALANCE FOR BRIF		\$ 281,205.93
TOTAL BUDGET		\$ 2,464,625.00

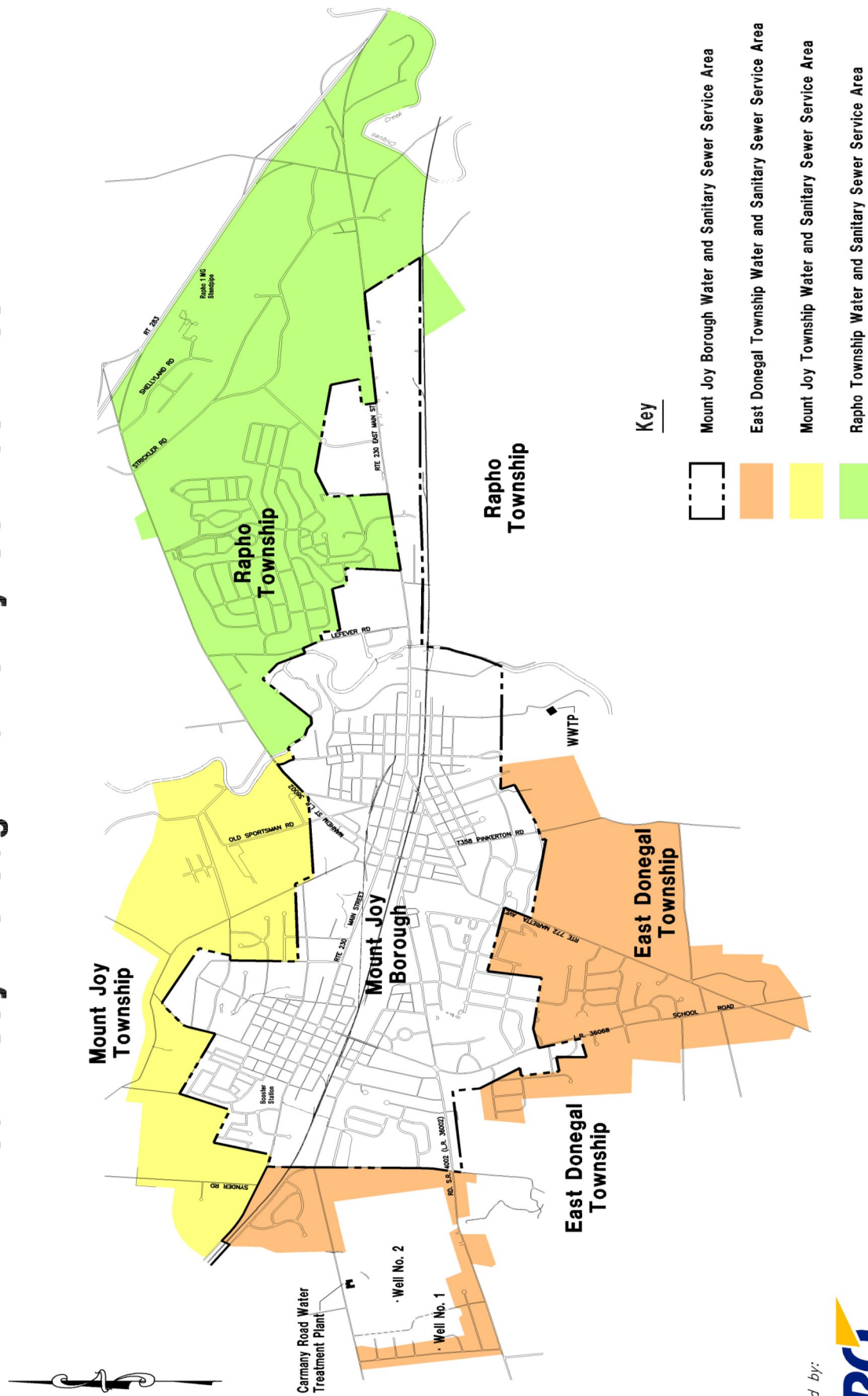
Revenues collected in excess of expenses paid and certain accruals are used for specific purpose of capital improvements to the Authority's water system and the payment of principal and interest on the Authority's outstanding debt.

2017-2018

Mount Joy Borough Authority

Water System Budget

Mount Joy Borough Authority Service Area



2500 1225 0 2500 5000 7500
SCALE IN FEET

APRIL 2017

Prepared by:



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Union Community Bank, Depository

