

Mount Joy Borough Authority 2015 Annual Report

Mount Joy Borough Authority Waste Water Treatment Facility



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Recently Completed & Current Projects

WATER TREATMENT & DISTRIBUTION SYSTEMS

- Progress on Well #3 and new Water Plant (Current)
- Replacement of Water Line on Marietta Avenue Bridge (Current)
- Church Street Booster Station (Current)
- Square Street and South Market Avenue Water Line Upgrade (Completed)



SANITARY SEWER SYSTEM & COLLECTION SYSTEM

- Sewer Main Flushing and Televising (Current)
- Construction of Pump Station #2 (Current)





A Message From The Authority Board Chairman

The 2015 Annual Report will focus on projects that Mount Joy Borough Authority (MJBA) has completed over the last year, and future projects we will be undertaking throughout the upcoming year and into the future.

MJBA has the distinction of being an operating authority that supplies treated drinking water and wastewater service to customers within the Borough of Mount Joy and parts of the surrounding Townships. Looking back, some of us might remember when public water was not just simply walking into a room and turning on a faucet, it meant going outside to a hand dug well or down to the local spring and fetching water with a bucket.

Over the years, technology and regulations have ensured that the water we receive meets a level of treatment safe for human consumption. Along that line, the wastewater that we generate as consumers also carries regulations for treatment; this ensures that the water leaving the wastewater plant is environmentally friendly for its next intended use. MJBA recognizes, complies and fully supports the need for these regulations, we also realize that in the not so near future, more stringent regulations will be presented, this will inevitably change how all of our facilities operate. Looking into the future we can see additional testing for contaminants within our drinking water, the development of TMDL's (Total Maximum Daily Loadings) for dischargers into the waterways, these additional regulations are for the benefit of generations to come. For us as environmental stewards in this industry to not recognize these future regulations would be shortsighted, this is why we need to start planning now for future compliance regulations, taking a proactive approach whenever possible and not simply becoming a company that is reactive.

As chairman, I ask that you take some time and read through the articles contained within this Annual Report. Please see our 12 current employees listed below and their status according to PA Dep licensing, as mentioned in previous Annual Reports the Authority takes pride in having such a talented and conscientious group of individuals, working together to provide this service to our customers and community.

<u>Name</u>	<u>Position</u>	<u>Certification/Licensing</u>
John Leaman	Authority Manager	Water and Sewer License
Joe Ardini	Operator/Manager/Supervisor	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	Construction Supervisor/Water Plant	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	Sewer License
David Piatt	Operator/Sewer Plant	Water and Sewer License
Bret Babula	Construction/Sewer Plant	Sewer License in Process

Board of Directors & Officers

Left to Right: Larry Derr (Treasurer), John Weidman (Vice-Chairman), John D. Rebman (Secretary), Robert Golicher (Assistant Secretary/Treasurer), Chairman Kenneth Gainer



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 1.16 million gallons of potable water being pumped into more than 67 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 4,600 connections and supplies water for fire protection to more than 480 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 66 miles of sewer mains with more than 1,330 manholes. 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 sewage pump stations, the system has a total of 8 different pump stations. Once at the plant the approximate 904,000 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. The wastewater treatment plant produces in excess of 593 dry tons of Class A bio-solids, which area farming operations utilize to offset nutrient needs of the soils.

MJBA Welcomes Two New Employees to its Staff

Pictured below are Zachery Dennis (left) and Bret Babula (right), both individuals are residents of Mount Joy. Zachery was hired as a water operator and comes to us as with experience operating water treatment facilities. Bret was hired to fill a position on our construction crew and has experience in the installation of water & sewer mains. Please welcome these two individuals as they begin their employment with the Authority.



MOUNT JOY BOROUGH AUTHORITY STAFF

Administration



(Pictured from left to right, back to front)
John Leaman
Administrator/Manager (W-A1 / S-A1) - 29 yrs
Joe Ardini
Operation Manager/Superintendent
(S-A1 /W-A1) - 18 yrs
Lindsey Edgell
Administrative Assistant- 13 yrs
Angie Fenicle
Business Manager- 16 yrs

Water Department

(Pictured from left to right)
Barry Geltmacher
Chief Operator (W-A1) -22 yrs
Scott Kapcsos
Construction Supervisor (W-B1) -4 yrs
Scott Kling
Operator (W-A1) -8 yrs
Zachary Dennis
Operator— (WA-1/SA-1) 1 yr
Jason Bowers
Construction Laborer -16 yrs
Jim Zink
Operator/Const. Laborer (W-A2) -36 yrs



Wastewater/ Construction Department



(Pictured from left to right)
Bret Babula
Operator (-1 yr)
Gary Karichner
Operator (S-B1) -8 yrs
Dennis Hardman
Chief Operator (S-A1) -16 yrs
David Piatt
Operator (W-A1/S-A1) -2 yrs
Ralph Eckels
Operator (S-A1/W-A1) -17 yrs
Larry Herr
Part-Time Maintenance -12 yrs

A Message From The Authority Administrator John Leaman

The Mount Joy Borough Authority (the Authority) is an "operating authority" providing water and wastewater services to over 4,600 commercial, industrial and residential accounts. The population served is approximately 10,600 people from Mount Joy Borough and portions of Mount Joy, East Donegal and Rapho Townships. The Authority is responsible for providing a safe potable supply of water to meet daily demand and provide effective treatment of wastewater to comply with state and federal regulations. In addition to the treatment plants the Authority operates, maintains and upgrades the water distribution system and wastewater collection system. The service area is delineated on a map inside the back cover.

Wastewater

As in previous years I want to provide our customers with information on completed, current as well as future projects in both the wastewater and water systems. At the beginning of 2014, the Authority completed a project which was a component of the adopted Act 537 plan in regards to on-lot septic systems. With the completion of this project all properties located in Mount Joy Borough with on-lot systems have been connected to the public sewer system.

Another project completed during the year was the upgrade to the interior and exterior lighting at both the wastewater and water treatment plants. In March, the Authority received information that for a limited time PPL E-Power was offering additional rebates to municipal operations for upgrades to interior and exterior lighting. Having a limited time to work with, agreements were executed for the work and by the end of April the project was complete and the available rebates were maximized. In addition to having energy efficient lighting at the facilities many antiquated interior and exterior lighting fixtures were replaced with LED lighting. In 2015, MJBA will move forward with the replacement of pump station #2, it is anticipated the project will take approximately nine months to complete and to be placed in operation.

Water

The year of 2014 also included upgrades to the water system. I mentioned last year the Authority received award of a grant from PA DCED for up to \$700,000.00 towards the replacement of the water booster station on Church Street in Mount Joy Borough. The work associated with the booster station project started in September and has been progressing extremely well. The booster station should be complete and put into operation by June 2015. In conjunction with this project the Authority upgraded approximately 1100 feet of 4 inch water main on Square Street. With this upgrade fire protection was greatly improved by a larger water main and the installation of fire hydrants.

We have reported in past annual reports about the planning of a new water treatment plant. The addition of a new well and treatment plant will provide the customers with many benefits. The new water treatment plant and benefits are discussed in more detail on page 10. The Authority also expects to complete upgrades to the Carmany Road water treatment facility after the new water treatment is placed in operation. With the new water plant in operation, which is expected to be in 2017, the water system will have more flexibility in taking the Carmany Road Plant off line for the upgrades. All of these improvements do not happen by chance. It requires having the right team to provide direction.

In August 2014, during an event sponsored by Pennsylvania Municipal Authorities Association, Authority board members Ken Gainer and Jim Hornafius were honored for 36 & 22 years of service respectively to the Authority. (Please see page 8) At the end of 2014 Jim Hornafius resigned from his position as board member from the Authority after providing 22 years of commitment. The board and staff of the Authority were very fortunate to have Jim's many years of dedicated service. Whenever there was a project underway you could be sure Jim would be there gathering information and providing guidance. We thank Jim for his many years of service to the Authority, his guidance and support will be missed.

At the beginning of 2015, Bob Golicher became a board member of the Authority. We welcome Bob and look forward to the experience Bob will bring from the many years of dedicated community service he provided as a previous Mount Joy Borough Council member.

The Authority board and staff never want to lose sight of what is most important, and that is you our customers. Our goal is to provide a system that will permit uninterrupted service to you and future generations. We are able to 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@mountjoy.org.

Water & Sewer Rate Increase Effective 5/1/2015

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: \$51.20/ first 8,000 gallons used each quarter

Sewer: \$65.12/ first 8,000 gallons used each quarter

- \$6.40 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.
- \$8.14 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, 2015: \$105.92 -New Rate Effective May 1, 2015: \$116.32

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

-Prior to May 1, 2015: \$158.88 -New Rate Effective May 1, 2015: \$174.48

Complete rate schedule can be found at 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 and Lighting Cables
PINK	Temporary Survey Markings
YELLOW	Gas, Oil, Steam, Petroleum or Gaseous Materials
BLUE	Potable Water
ORANGE	Communication, Alarm or Signal Lines, Cables or Conduit
GREEN	Sewers and Drain Lines
PURPLE	Reclaimed Water, Irrigation and Slurry Lines

Extended Service Board Members Receive Award



James Hornafius (L)
Kenneth Gainer (R)

On August 25-26, 2014, the Pennsylvania Municipal Authorities Association (PMAA) Annual Conference and Trade Show was held at the Hershey Lodge in Harrisburg, PA. Tuesday evening during the annual awards banquet, Mount Joy Borough Authority (MJBA) members James Hornafius and Kenneth Gainer were recognized for their many years of dedicated service. The PMAA award description states, "In an effort to promote interest in good authority administration and operation, and to recognize faithful and effective service by authority officials, PMAA established the annual Sahli Service Award for those who have served 20 years or more, and the Extended Service Award for those who have served 30, 40, and 50 years." We are very pleased to congratulate Mount Joy Borough Authority's James Hornafius on receiving the Sahli Service Award, and Kenneth Gainer on receiving the Extended Service Award. They have been pillars of the community for many years and have been instrumental in the efficiency and success of the Authority over the past 31 years.

Jim Hornafius has been the Treasurer of the Authority for the past 22 years, first joining the Authority in January of 1993 and retiring in end of 2014. Ken Gainer has been with the Authority for the past 30+ years, first joining the Authority in January of 1966. Ken first served as Assistant Secretary /Treasurer from 1966-1968, then as Secretary in 1969. Jumping forward to 1987, he served again as Assistant Secretary/Treasurer, then serving as Treasurer in 1988 and Vice Chairman from 1989-1992. In 1993, Ken began serving his current position as Chairman of the Authority.

Jim came from a very technically focused and detail oriented background. He attended watch making school and then spent many years at IBM, working on the first electronic typewriter. His sharp mind, extreme dedication, and attention to detail made him an invaluable asset to the Authority. Throughout all of his years of service, Jim showed an incredible amount of dedication and was always involved in every project. When a project was underway, he would always be at the job site to see what was happening and made a point of always not just knowing what was happening, but also understanding technically. Even if there was an emergency in the middle of the night, Jim would always be there to assist and provide input however he could.

Prior to joining the Authority, Ken spent many years working in every facet of the industry, from studying chemistry in college, to production and manufacturing, to corporate management, which took him all over the world. These experiences taught Ken to be able to look at all aspects of the business and to always question. When Ken joined in 1966, the Authority and even the whole borough looked very different. In those days, Mount Joy Borough had a much smaller population; jump forward 49 years to today, and the Borough Authority services around 10,000 people (just under 8,000 in Mount Joy Borough). During their tenure, the borough developed from a small localized system to a professionally run regional system and the Authority has gained quite a reputation for being state of the art and always ahead of the game. When asked what sets Mount Joy Borough Authority apart, Ken replied that it is due to a "Proactive instead of Reactive" approach. There will always be rules and regulations, and they will always be changing, the key is to always be on top of them, if not ahead.

To try and keep ahead of rules and regulations, the Authority took certain steps to be prepared. Of these, they aimed to have all borough authority employees certified and licensed, with many multi-licensed. This allowed for better understanding of current and future issues in all aspects of the municipal functions, and made them have the ability to cross-reference and cross check everything. When it came time to do the budget for each year, having more certified employees made it possible for them to set their own budget and know more accurately what they would and wouldn't need. Having such a qualified team also came in handy when irregular situations arose, giving them a more broad view of all of the possibilities, and the ability to entertain more creative and innovative ideas. There were also certain factors that aided the Authority's success, such as a virtually non-existent turn-over rate and that for many years, all members of the Authority were retired and had more time to dedicate to the development and growth of the Borough and Authority. When asked what three things he felt were really the keys to the Authority's success, Ken credited their great mix of people, the regular (in-house and outside) training, and keeping up with regulatory demands.

Mount Joy Borough Authority and the residents of Mount Joy Borough have been very lucky to benefit from the many years of experience and wisdom of these two distinguished gentlemen. When asked about his time working with Jim and Ken, Mount Joy Borough Manager, Scott Hershey commented "I have been employed in various positions with the Borough of Mount Joy for over thirty years. Throughout my tenure with the Borough, I have seen that both Ken Gainer and Jim Hornafius have been dedicated to making decisions that addressed not only the current needs, but also the future needs of the Borough Authority and the consumers served by the Borough Authority. In addition, their spirit of cooperation in working with the Borough has been appreciated." We want to say a heartfelt "thank you" to Jim Hornafius and Ken Gainer for their many years of hard work and dedication to the Authority, and congratulate them on receiving these prestigious awards.

Emergency Notification System

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 items, such as cell phone or other electronic devices such as e-mail. Please take a moment and fill out the information below on how we may best alert you and return it to the address on the back of this report. You may also visit mountjoyborough.com and click on the link on the home page to submit your information electronically. This system will also be available for use by the Borough and Police Department to alert you of emergencies.

MOUNT JOY BOROUGH AUTHORITY Emergency Notification - Contact Information Request

Please update your emergency notification contact information for inclusion in the notification database.

[The information you enter will be audited and erroneous data will be deleted]



Name: Address:

Primary Phone: City: State: Zip Code:

Alternate Phone 1: County:

E-mail: Enable TTY/TDD: (For the Hearing Impaired)

(Text/SSM Info) Number:

Powered by SwiftReach Networks Swift 911 Emergency Notification © 2002-2010.
For additional information, please visit www.swiftreach.com

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.



Mount Joy Borough Authority: Challenges and Accomplishments

A Vital Water Project is One Step Closer to Completion

Redundancy. This term is often used by the Mount Joy Borough Authority when describing its goals for the future. But what does it mean for you, the customer? Redundancy in a tap water system is created by having duplicate components or equipment that serves as a back-up or fail-safe should something go wrong. You probably have read from past articles about the Authority's goal of constructing a new water treatment plant which will provide that needed redundancy. For the last decade, step by step, the Authority has been working toward this important initiative; which required finding a new aquifer, obtaining permits, planning a treatment and distribution system, determining costs for the new water supply, and researching ways to meet those costs.

At this time, your tap water is pumped from two wells situated on the same underground aquifer. Over a million gallons per day is drawn from these production wells (Wells 1 & 2), treated at the Carmany Road Water Treatment Plant, and distributed to the Authority's residential, business, and industrial customers. In addition, three water storage tanks hold a total of 3.2 million gallons. Should the current aquifer become contaminated because of a catastrophic event, your tap water could be impacted until the event is resolved. An alternate and additional water source, or redundancy, is needed to ensure water security.

Progress on Achieving a Redundant Water Supply

The Authority has located a separate aquifer and gained approval from the Susquehanna River Basin Commission for a new well (Well 3), which was permitted to withdraw up to 1.02 million gallons per day. At that time the Authority was required to re-permit Wells 1 and 2, and at the end of the process the Authority's total capacity was set at 2.6 million gallons per day (Wells 1, 2 and 3). The additional water supply offers 60 percent more capacity, provides a back-up should the first aquifer become contaminated, and will meet the growing needs of our community for many years.

The next step was to determine how water from Well 3 would be treated to meet federal and state safe drinking water regulations. There were two options, and the initial thought was to pump water from Well 3 to the current Carmany Road Water Treatment Plant to be processed along with water from Wells 1 and 2. However, a study concluded that the Carmany plant would need significant upgrades to accommodate the additional water supply. Furthermore, the water plant's current location does not allow for the expansion that would be required for these upgrades. The second option was more feasible. A new plant to treat water from Well 3 will be constructed.

There are compelling reasons for building a new water treatment facility. A second plant introduces flexibility within the system during upsets at either location. It will be significantly easier to take units offline for maintenance, rehabilitation and upgrades. In addition, a new plant will provide an advantage for public safety by greatly enhancing fire protection through the fire hydrant system. The new plant will use membrane filtration, which has better removal efficiency for particulates. Water will also be treated for nitrates and softened, which is the current process at Carmany. While thoroughly researching the best way to create redundancy in our water system, it became clear that a second plant is necessary to provide a dependable water supply that will meet our growing region's needs.

When will construction begin? The original timeline was pushed back while the Authority sought input from residents, the borough council, and consultants to find a suitable site. Results of these meetings determined that the new plant will be located on authority-owned land that is removed from residential neighborhoods. Financing necessary to build the plant will be secured by the end of 2015. Construction is projected to begin in 2016 with completion in 2017.

Essential Upgrades Result in Costs that Reflect the True Value of Clean Water

Last year, the increase in water and sewer rates that you paid allowed the Mount Joy Borough Authority to make significant investments in infrastructure. With the upgrade of wastewater pump station 2; all eight pump stations have modern equipment, greater reliability, and some of the stations have higher pumping capacity. This long-term wastewater project began in 2007 and is now complete. These pump station upgrades will meet the demands of the system for many years into the future. In addition, replacement of the Church Street water booster station has begun. The new equipment will greatly improve fire protection and water pressure reliability for the homes and businesses in that service area.

Along with the sense of accomplishment in providing top quality tap water and wastewater services, the Authority's efforts to keep costs contained are always front and center. All across the United States, authorities like ours face significant challenges in providing a safe water supply, protecting our environment, upgrading aging infrastructure, and meeting federal and state regulations, all while keeping costs down. In the past, water and sewer infrastructure was heavily subsidized by grants, and therefore rates did not reflect the true costs of withdrawal and pollutant discharge. Those grants have diminished due to government austerity. Times are changing and customers are facing a reality that water is not necessarily a cheap resource.

This reality is also true for customers of the Mount Joy Borough Authority. Over the years, the Authority was fortunate to secure grants from Lancaster County's Urban Enhancement Fund and Community Development Block Grant. However, the County has not allocated monies to the Urban Enhancement Fund in the last few years. In addition, due to a change in demographics in our area, the Community Development Block Grant is no longer available to us. Given the decline in supplemental funding and the need for continued infrastructure upgrades, the Authority must raise both water and sewer rates again this year.

You will continue to be investing in safeguarding your water supply and serving future generations. The Authority's capital improvement fund must be strengthened to meet going repairs to aging infrastructure. In addition, the debt service on the borrowing for the new water treatment plant will raise annual operating costs. As described in last year's annual report, a recent five-year projection shows that additional rate increases will also be required in upcoming years. However, we continue to be heartened that our water and sewer rates are still mid-range compared to the other Lancaster County Authorities, even with the new increase that will be implemented in May 2015.

Service to you, the customer, is central to the work of the Authority. Rate increases and the subsequent investment in infrastructure will expand an important partnership to make sure the area's water is safe and the environment is protected. Your input is welcome at any time, and you are invited to contact the Authority board members or staff if you have questions about the water and sewer rates going forward.



2014 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, Operations 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 meeting 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 of the wells and the treatment plant are located 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 of the water treatment plant is 1,160,000 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).

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

DETECTED SAMPLE RESULTS:

Inorganic Contaminants	MCL In CCR Units	MCLG	Highest Level Detected	Range of Detections	Units	Violation Y/N	Sources of Contamination
Chromium (2012)	100	100	3.1	---	ppb	N	Erosion of natural deposits.
Barium (2012)	2	2	0.017	---	ppm	N	Erosion of natural deposits.
Nitrate	10	10	6.6	4.9 – 6.6	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	.69	.69 - .69	ppb	N	Runoff from herbicide used on row crops

LEAD AND COPPER RULE:

Contaminant	Action Level (AL)	MCLG	90 th Percentile Value	Units	# of Sites Above AL of Total Sites	Violation Of TT Y/N	Sources of Contamination
Lead 2013	15	0	3.8	ppb	0	N	Corrosion of household plumbing
Copper 2013	1.3	1.3	0.16	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	5.9	0.0 – 5.9	ppb	N	By-product of drinking water disinfection
TTHMs [Total trihalomethanes] (ppb)	80	n/a	29.2	1.9 – 29.2	ppb	N	By-product of drinking water chlorination
Chlorine (in the distribution)	mrdl=4	mrdl=4	1.18	.85 – 1.18	ppm	N	Water additive used to control microbes

<i>Entry Point Disinfectant Residual</i>							
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	0.73	0.73 – 1.71	ppm	8/14/2014	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	.13 NTU	2/18/2014	.02 - .13 NTU	N	Soil runoff
	TT= at least 95% of monthly samples ≤0.3 NTU		100%	1/1/2014 - 12/31/2014	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

<i>Total Organic Carbon (TOC)</i>					
Contaminant	Range of % Removal Required	Range of percent removal achieved	Number of quarters out of compliance	Violation Y/N	Sources of Contamination
TOC	NA *	5% - 100%	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.*

Mount Joy Borough Authority participated in the U.S. EPA unregulated contaminants monitoring rule testing (UCMR3 testing). Unregulated contaminants do not have established drinking water standards set by the U.S. EPA. The purpose of monitoring for these contaminants is to help EPA determine if standards need to be established. The detections that were found in the UCMR3 testing are shown in the table below.

Contaminants (units)	Year Sampled	MCL	Sample Location	Range of Detections	Minimum Reporting Level	Sources of Contamination
Chromium (ppb)	2014	Not Regulated	Treatment Facility	.20 - .201	.2	Naturally occurring element; used in making steel and other alloys; erosion of natural deposits
			Distribution System	.264 - .30		
Strontium (ppb)	2014	Not Regulated	Treatment Facility	81.2 - 151	.3	Naturally occurring element; historically, commercial use of strontium has been in the faceplate glass of cathode-ray tube televisions to block x-ray emissions
			Distribution System	110 - 129		
Vanadium (ppb)	2014	Not Regulated	Treatment Facility	.2 - .2	.2	Naturally-occurring elemental metal; used as vanadium pentoxide which is a chemical intermediate and a catalyst.
			Distribution System	.264 - .335		
Chromium-6 (ppb)	2014	Not Regulated	Treatment Facility	.164 - .25	.03	Naturally occurring element; used in making steel and other alloys; chromium-3 or -6 forms are used for chrome plating, dyes and pigments, leather tanning, and wood preservation.
			Distribution System	.295 - .49		
Chlorate (ppb)	2014	Not Regulated	Treatment Facility	55 - 90.8	20	Agricultural defoliant or desiccant; used in production of chlorine dioxide.

A detection of a UCMR3 analyte above the MRL does not represent cause for concern, in itself. The implications of the detection should be judged considering health effects information, which is often still under development or being refined for unregulated contaminants. For more information on occurrence data consult "UCMR 3 Data Considerations, Definitions, Reference Concentrations and Summary PDF" at <http://water.epa.gov/lawsregs/rulesregs/sdwa/ucmr/data.cfm#ucmr2013>

HEALTH EFFECTS:

No MCL's or treatment techniques were exceeded.

OTHER VIOLATIONS:

For the Fourth Quarter the Total Dissolved Solids results were 935 mg/l compared to the 500 mg/l limit; the Chloride results were 367 mg/l compared to the 250 mg/l limit. Total Dissolved Solids and Chloride are considered Secondary Contaminants, with little to no health effects.

Because we have had detections in the past for the Synthetic Organic Contaminant Atrazine, we are required to test for it each year during the 2nd quarter. That testing was completed. All the other SOC's are required to be tested every 3 years during both the 2nd and 3rd quarters. In 2014 we inadvertently did not test the 3 year SOC's in the 2nd quarter as required. The 3rd quarter required testing of all those 3 year SOC's was completed as required, with no detections found.

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		
Acct. Number	Description	
08.364.601	Residential Sewer Service	\$ 1,827,415.00
08.364.602	Commercial Sewer Service	\$ 218,412.00
08.364.603	Industrial Sewer Service	\$ 96,650.00
08.364.604	Public / Other Sewer Service	\$ 100,250.00
08.364.605	Sewer Tapping /Connection Fees	\$ 250,000.00
08.364.606	Water Meter Sales	\$ 15,000.00
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	\$ 200.00
08.364.611	Lien Payoffs	\$ 500.00
08.364.612	Insurance Rebate	\$ 5,000.00
08.364.613	Energy Reimbursements	\$ 70,000.00
TOTAL REVENUES		\$ 2,611,427.00

EXPENSES		
ADMINISTRATIVE		
Acct. Number	Description	
08.400.782	Authority Manager Wages	\$ 39,357.79
08.400.783	Operations Manager Wages	\$ 33,809.39
08.400.784	Business Manager Wages	\$ 25,010.09
08.400.785	Administrative Assistant	\$ 20,797.66
08.400.790	Authority Board Members	\$ 3,750.00
08.400.791	Pension	\$ 37,512.58
08.400.792	Water/Sewer Billing	\$ 7,000.00
08.400.793	Office Supplies	\$ 2,000.00
08.400.794	Communication Expense	\$ 3,000.00
08.400.795	Engineering	\$ 30,000.00
08.400.796	Trustee	\$ 3,000.00
08.400.797	Legal Expense	\$ 20,000.00
08.400.798	Liability / Worker's Comp Ins.	\$ 35,000.00
08.400.799	Health Insurance	\$ 191,000.00
08.400.800	Building Rental / Reimbursement	\$ 25,000.00
08.400.801	Auditor Expense	\$ 20,500.00
08.400.802	Uniforms	\$ 3,000.00
08.400.804	Payroll Taxes / Fees	\$ 40,000.00
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	\$ 2,500.00
08.400.810	Advertising / Printing	\$ 4,000.00
08.400.901	Repayment of Loan	\$ 10,500.00
SUBTOTAL		\$ 568,237.51

COLLECTION EXPENSES		
Acct. Number	Description	
08.428.710	Wages	\$ 115,753.63
08.428.712	Supplies	\$ 3,000.00
08.428.714	Utilities	\$ 34,000.00
08.428.715	Equipment Maintenance	\$ 6,600.00
08.428.716	Repairs / Maintenance	\$ 47,000.00
08.428.717	Vehicle Expense	\$ 12,000.00
08.428.718	General Expense	\$ 1,500.00
08.428.719	Equipment Purchase / Tools	\$ 1,300.00
08.428.720	Service Connections	\$ 1,500.00
08.428.754	Meters	\$ 50,000.00
SUBTOTAL		\$ 272,653.63

TREATMENT & DISPOSAL EXPENSES		
Acct. Number	Description	
08.429.730	Wages	\$ 243,823.72
08.429.732	Nutrient Trading	\$ 40,000.00
08.429.733	Testing	\$ 18,000.00
08.429.734	Chemicals	\$ 138,000.00
08.429.735	Supplies / Lab Supplies	\$ 13,000.00
08.429.736	Utilities	\$ 175,000.00
08.429.737	Equipment Purchase / Tools	\$ 1,500.00
08.429.738	Plant Repairs / Maintenance	\$ 84,000.00
08.429.739	Equipment Maintenance	\$ 12,000.00
08.429.740	General Expense	\$ 13,000.00
08.429.742	Vehicle Expense	\$ 7,000.00
SUBTOTAL		\$ 745,323.72
TOTAL EXPENSES		\$ 1,586,214.86
DEBT SERVICE		\$ 996,826.26
FUND BALANCE FOR BRIF		\$ 28,385.88
TOTAL BUDGET		\$ 2,611,427.00

2015-2016

Mount Joy Borough Authority

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.

Wastewater System Budget

REVENUES		
Acct. Number	Description	
06.378.601	Residential Water Service	\$ 1,453,960.00
06.378.602	Commercial Water Service	\$ 174,972.00
06.378.603	Industrial Water Service	\$ 297,000.00
06.378.604	Public / Other Water Service	\$ 84,500.00
06.378.605	Water Tapping /Connection Fees	\$ 200,000.00
06.378.606	Water Meter Sales	\$ 15,000.00
06.378.607	Lease / Rent Agreements	\$ 39,708.00
06.378.608	Misc Revenue / Reimbursements	\$ 5,000.00
06.378.609	Final Reading Fees	\$ 3,000.00
06.378.610	Interest Income	\$ 200.00
06.378.611	Lien Payoffs	\$ 500.00
06.378.612	Insurance Rebates	\$ 5,000.00
TOTAL REVENUES		\$ 2,278,840.00

EXPENSES		
ADMINISTRATIVE		
Acct. Number	Description	
06.400.782	Authority Manager Wages	\$ 39,357.79
06.400.783	Operations Manager Wages	\$ 33,809.39
06.400.784	Business Manager Wages	\$ 25,010.09
06.400.785	Administrative Assistant	\$ 20,797.66
06.400.790	Authority Board Members	\$ 3,750.00
06.400.791	Pension	\$ 37,512.58
06.400.792	Water/Sewer Billing	\$ 7,000.00
06.400.793	Office Supplies	\$ 2,000.00
06.400.794	Communication Expense	\$ 3,000.00
06.400.795	Engineering	\$ 30,000.00
06.400.796	Trustee	\$ 1,500.00
06.400.797	Legal Expense	\$ 20,000.00
06.400.798	Liability / Worker's Comp Ins.	\$ 35,000.00
06.400.799	Health Insurance	\$ 191,000.00
06.400.800	Building Rental / Reimbursement	\$ 25,000.00
06.400.801	Auditor Expense	\$ 28,500.00
06.400.802	Uniforms	\$ 3,000.00
06.400.804	Payroll Taxes / Fees	\$ 40,000.00
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	\$ 2,500.00
06.400.810	Advertising / Printing	\$ 4,000.00
SUBTOTAL		\$ 565,737.51

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.

TREATMENT EXPENSES		
Acct. Number	Description	
06.448.702	Wages	\$ 190,724.21
06.448.703	Supplies & Lab Supplies	\$ 4,000.00
06.448.704	Testing	\$ 7,000.00
06.448.705	Repairs/Maintenance	\$ 55,000.00
06.448.706	Chemicals	\$ 172,000.00
06.448.707	General Expense	\$ 1,000.00
06.448.708	Vehicle Expense	\$ 7,000.00
06.448.709	Utilities	\$ 85,000.00
06.448.710	Equipment Purchases/Tools	\$ 1,500.00
SUBTOTAL		\$ 523,224.21

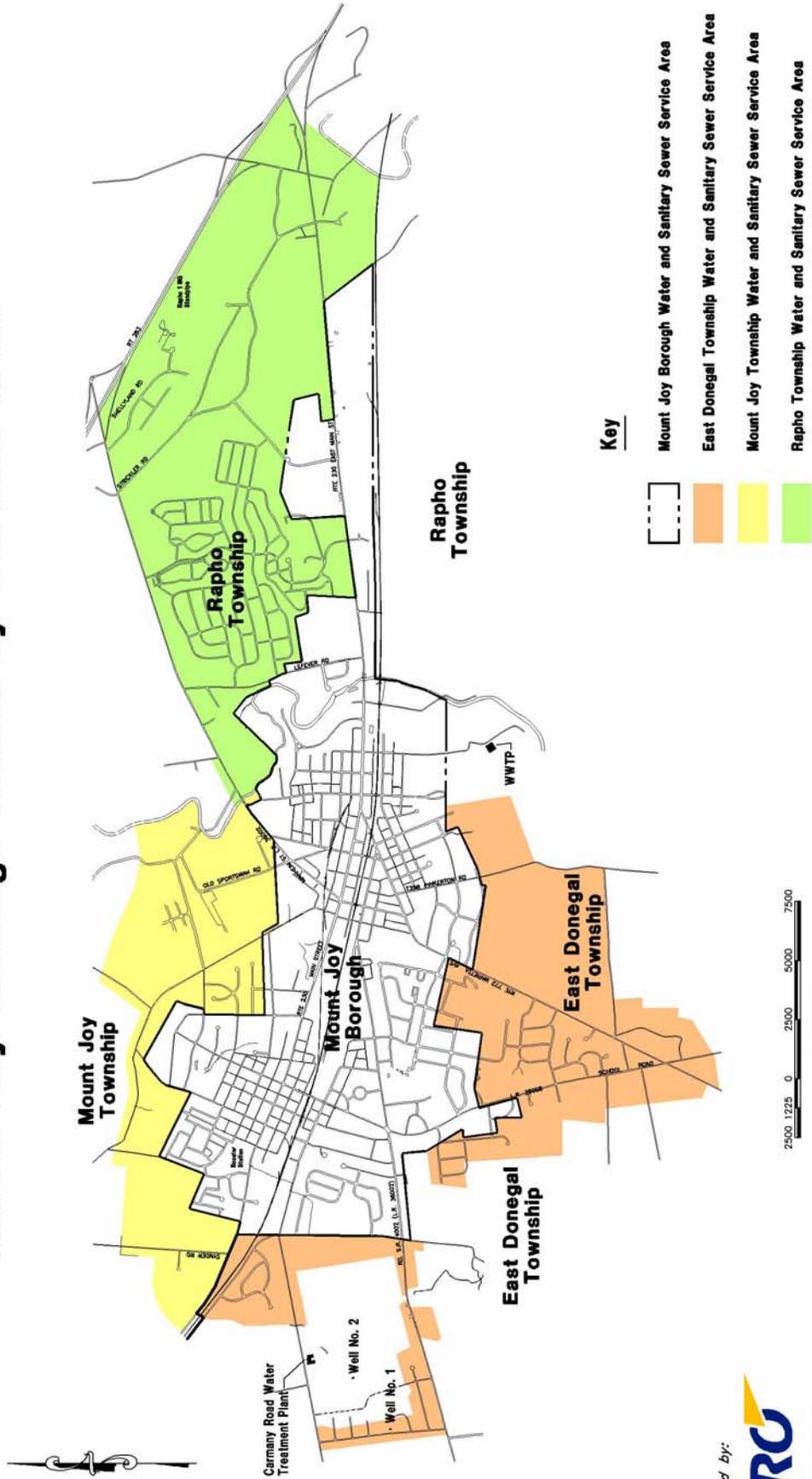
TRANSMISSION / DISTRIBUTION EXPENSES		
Acct. Number	Description	
06.449.752	Wages	\$ 115,753.63
06.449.753	Supplies	\$ 3,000.00
06.449.754	Meters	\$ 50,000.00
06.449.755	Fire Hydrant Expenses	\$ 10,000.00
06.449.756	Repairs / Maintenance	\$ 57,500.00
06.449.757	Equipment Maintenance	\$ 6,600.00
06.449.758	Equipment Purchases / Tools	\$ 1,300.00
06.449.759	Service Connections	\$ 1,500.00
06.449.760	Vehicle Expense	\$ 12,000.00
06.449.761	General Expense	\$ 1,500.00
06.449.762	Utilities	\$ 28,000.00
SUBTOTAL		\$ 287,153.63
TOTAL EXPENSES		\$ 1,376,115.35
DEBT SERVICE		\$ 701,391.26
FUND BALANCE FOR BRIF		\$ 201,333.39
TOTAL BUDGET		\$ 2,278,840.00

2015-2016

Mount Joy Borough Authority

Water System Budget

Mount Joy Borough Authority Service Area



Key

-  Mount Joy Borough Water and Sanitary Sewer Service Area
-  East Donegal Township Water and Sanitary Sewer Service Area
-  Mount Joy Township Water and Sanitary Sewer Service Area
-  Rapho Township Water and Sanitary Sewer Service Area

2500 1225 0 2500 5000 7500
SCALE IN FEET

JULY 2013

Prepared by:



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MOUNT JOY BOROUGH AUTHORITY
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Mount Joy, PA 17552

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ARE YOU REPLACING YOUR CURB 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.



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