

Consumer Confidence Report

ABOUT YOUR DRINKING WATER



This Report contains water quality information for the consumers of water provided by your public water supplier, the Borough of Macungie. You will find basic information on where your water comes from, the amount of detected contaminants that we test for, information of our compliance with drinking water regulations, and where to find further information about drinking water. Our goal is to help you have a better understanding about the water you use every day.

The source of your tap water is from two groundwater wells. Well No. 1 is located at the Municipal Garage. The well was drilled to a depth of 300 feet. Well No. 2 is located on Lehigh Street, 1,750 feet from N. Church St. The well was drilled to a depth of 430 feet. The water is pumped from the geological region known as the Leithsville Formation. As water is pumped from the wells and allowed to enter the distribution system, chlorine is added to the water to protect you against microbial contamination.

MONITORING YOUR WATER

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 microbiological contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.



All sources of drinking water, including bottled water, are subject to potential contamination by constituents that are naturally occurring or man-made. Those constituents can be microbes, organic or inorganic chemicals, or radioactive materials. All 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 the 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 at 1-800-426-4791.

We are pleased to report that our water meets or exceeds federal and state requirements. If

you would like additional information about your water, you may contact Douglas G. McNair, Borough of Macungie, 610-966-2503. Public concerns and comments may be expressed at any of the Authority's meetings. The Authority meets at Borough Hall, 21 Locust Street, Macungie, PA on the second Thursday of the months of January, April, July, and October beginning at 7:00 p.m.

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, ó hable con alguien que lo entienda. (This report contains important information about your drinking water. Have someone translate it for you, or speak with someone who understands it.)

Consumer Confidence Reports will be issued by July 1st of every year.

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WATER QUALITY TEST RESULTS

MICROBIAL (RELATED TO ASSESSMENTS/CORRECTIVE ACTIONS REGARDING TC POSITIVE RESULTS):

As a public water supplier, we are required to test our water on a regular basis to ensure its safety. The Table below lists only the drinking water contaminants that we detected. **The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk.** Unless otherwise noted, the data presented in the table is from testing done January 1, - December 31, 2016. The Commonwealth allows us to monitor for certain contaminants less than once per year because the concentration of these contaminants are not expected to vary significantly from year to year. Our Pennsylvania Water Supply Identification (PWSID) number is 3390033.

TYPE OF MCL CONTAMINANTS (UNITS)	MCL or MRDL	MCLG or MRDLG	TEST RESULTS	RANGE OF DETECTION	SAMPLE DATE	VIOLATION	TYPICAL SOURCE OF CONTAMINANTS
DISINFECTANTS & DISINFECTION BY-PRODUCTS:							
Chlorine (ppm)	4	4	0.60	0.47 - 0.60	August 2016	No	Water additive used to control microbes.
Trihalomethanes [TTHMs] (ppb)	80	n/a	10.1	10.1 - 10.1	August 2016	No	By-product of drinking water chlorination.
Haloacetic Acids (HAA5)(ppb)	60	n/a	2	2.0 - 2.0	August 2016	No	By-product of drinking water disinfection.
ENTRY POINT DISINFECTANT RESIDUALS:							
Chlorine (ppm)	4	*MDR 0.6	0.6	0.6 - 0.95	Daily	No	Water additive used to control microbes.
*Minimum Residual Disinfectant Level (MinRDL)							
INORGANIC CHEMICALS:							
Nitrates (ppm)	10	10	3.50	2.66 - 4.39	Quarterly	No	Runoff from fertilizer use; leaching from septic systems; erosion from natural deposits.
Lead (ppb)	*A.L = 15	0	3.0	No sites exceeded the A.L. out of the 10 sites sampled	June 2016	No	Corrosion of household plumbing systems.
Copper (ppb)	*A.L = 1.3	1.3	0.181	0.032 - 0.308	June 2016	No	Corrosion of household plumbing systems.
Contaminants	Treatment Technique (TT)		MCLG	Assessments/ Yes/No	Violation Corrective Actions		Sources of Contamination
Total Coliform Bacteria	Any system that has failed to complete all the required assessments or correct all identified sanitary defects, is in violation of the treatment technique requirement.		n/a	No	See detailed description under "Detected Contaminants Health Effects Language and Corrective Actions" section.		Naturally present in the environment.

*Action Levels (A.L.) are in place of Maximum Contaminate Levels (MCL's).

We had no detections of Volatile Organic Compounds or Synthetic Organic Compounds.

Other water parameter information that may be helpful in your home or business in making adjustments to your private water softeners or conditioners can be found on the web at www.macungie.pa.us/drinkingwater.htm

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SOURCE WATER ASSESSMENT

A "Source Water Assessment" of our source(s) was completed by the PA Department of Environmental Protection (Pa. DEP). A summary report of the Assessment was not yet available at time of printing of this report on the source water assessment & protection web page but will be available in the future at, "<http://www.dep.state.pa.us/dep/deputate/watermgmt/wc/Subjects/SrceProt/SourceAssessment/default.htm>". 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 Pa. DEP Northeast Regional Office, Records Management Unit at 2 Public Square, Wilkes-Barre, PA 18711-0790.



DETECTED CONTAMINATES HEALTH EFFECTS LANGUAGE AND CORRECTIVE ACTIONS:

The Authority's goal is to provide you with a safe, consistent quality water supply. This is partly achieved through water testing on a weekly basis for total coliforms in the water distribution system. *Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other potentially – harmful, bacteria may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.* During the past year we were required to conduct one Level 1 assessment(s). One Level 1 assessment(s) were completed. In addition, we were required to take one corrective action(s) and we completed one of these action(s).

About our Level 1 Assessment...

In the month of April we were notified that two of the weekly water system tests were positive for total coliforms (negative for E. coli). In response, the sample locations were re-tested at the

original locations along with four other samples within five service locations of the original ones. We are pleased to report that all six water samples tested negative – no coliforms or E. coli were present. As a result of having two positive test results for total coliforms in one month, we were required to conduct a Level 1 assessment. After the completion of the Level 1 assessment we determined the cause to be that the sampling collection procedures were not being closely followed. Corrective action included meeting with the sample collector and discussing the importance of following sample collection procedures.

Other Violations: On May 24, 2016 we were notified by the Pennsylvania Department of Environmental Protection that they had not received our free chlorine residual test results for the water distribution entry points for the month of April. This water test is done daily at each of the two entry points in the distribution system. The daily results are submitted monthly and due no later than the tenth day of the following month. The daily water tests were done, but we failed to submit the results by the due date. This violation was corrected by submitting the results immediately after we were notified.

TERMS AND ABBREVIATIONS In this table, you will find terms and abbreviations with which you might not be familiar. To help you better understand these terms, we've provided the following definitions:

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

n/a - not applicable.

Level 1 Assessment – A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment – A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and /or why total coliform bacteria have been found in our water system on multiple occasions.

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 "Goal" is 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 drinking water disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfection Level Goal (MRDLG) - The level of a drinking water disinfected 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 Residual Disinfectant Residual (MinRDL) - The minimum amount of free chlorine in the water we must maintain at each entry point where the water from our wells is pumped into the distribution system.

Parts per billion (ppb) or micrograms per liter - one part per billion corresponds to one minute in 2,000 years or a single penny in \$10,000,000.

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TERMS AND ABBREVIATIONS CONTINUED

Parts per million (ppm) or milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

Total Trihalomethanes (TTHMs) - A group of four chemicals that are formed along with other disinfection byproducts when

chlorine or other disinfectants used to control microbial contaminants in drinking water react with naturally occurring organic and inorganic matter in water.

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

LEAD IN DRINKING WATER

National events about lead exposure have generated new concerns for Pennsylvanians related to the safety of their homes and water. The Macungie Borough Authority takes the issue of lead exposure very seriously by adhering to all federal and state regulations pertaining to the lead and copper rule, which requires that public drinking water suppliers regularly test for contaminants such as lead.

We also want you to know that infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (800-426-4791).

The purpose of the Lead and Copper Rule is to protect public health by minimizing lead and copper levels in drinking water, primarily by making water less corrosive. When water is corrosive, the lead and copper found in plumbing materials can leach into your drinking water. Pennsylvania's Lead and Copper Rule establishes an action level of 0.015 mg/L for lead and 1.3 mg/L for copper. An action level exceedance is not a violation but can trigger other requirements that include water quality parameter monitoring, corrosion control treatment, source water monitoring/treatment.

The Borough of Macungie is very fortunate to have quality sources of water. The water is naturally neutral, meaning it does not have corrosive properties. As a result, the borough's lead and copper test results (see the "Water Quality Test Results" table) are well below the action levels as specified in the Lead and Copper rule. To ensure a true representation of our drinking water, the samples are drawn from taps at homes throughout the borough. These homes have to meet certain criteria such as having pipes with leaded soldered joints. Another requirement is that the water is left to stand in the pipes for a minimum of 6 hours before drawing the water out to be tested. For more information on lead in drinking water please see the following link in the internet: "<http://extension.psu.edu/natural-resources/water/drinking-water/water-testing/pollutants/lead-in-drinking-water>".

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