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Minimum Residual Disinfectant Level (MinRDL) - The minimum level of residual disinfectant required at the entry point to the 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.

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)

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

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

ppq = parts per quadrillion, or picograms per liter

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

ppt = parts per trillion, or nanograms per liter

# DETECTED SAMPLE RESULTS:

Contaminant	MCL in CCR Units	MCLG	Level Detected	Range of Detections	Units	Sample Date	Violatio n Y/N	Sources of Contamination
Barium	2	2	0.07	0.07	ppm	2017	N	Discharge of drilling wastes discharge from metal refineries and erosion of natural deposits
Nitrate	10	10	5.8	4.9-5.8	ppm	2017	N	Runoff fror fertilizer use leaching fror septic tank sewage; an erosion of natura deposits
TTHM's	80	NA	41.0	27-41	ppb	2017	N	By-product of drinking water disinfection
HAA5	60	NA	15.0	13-15	ppb	2017	N	By-product of drinking water disinfection
Chlorine	MRDL= 4	G=4	1.25	.73-1.25	ppm	2017	N	Water additive used to control microbes
Combined Radium	5	0	1	-	pCi/L	2014	N	Erosion of natura deposits

<sup>\*</sup>EPA's MCL for fluoride is 4 ppm. However, Pennsylvania has set a lower MCL to better protect human health.

Entry Point Disinfectant Residual								
Contaminant	Minimum Disinfectant Residual	Lowest Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination	
Chlorine	0.2	1.40	1.40-1.63	ppm	2017	N	Water additive used to control microbes.	

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Lead and Cop	Lead and Copper								
Contaminant	Action Level (AL)	MCLG	90 <sup>th</sup> Percentile Value	Units	# of Sites Above AL of Total Sites	Violatio n Y/N	Sources of Contamination		
Lead 2016	15	0	0	ppb	0 out of 20	N	Corrosion of household plumbing.		
Copper <b>2016</b>	1.3	1.3	.228	ppm	0 out of 20	N	Corrosion of household plumbing.		

Turbidity								
Contaminant	MCL	MCLG	Level Detected	Sample Date	Violation Y/N	Source of Contamination		
Turbidity	TT=1 NTU for a single measurement	0	.06	11/05/17	N	Soil runoff		
	TT= at least 95% of monthly samples<0.3		100 %	-	N			

Total Organic Ca	rbon (TOC)	efula di Leggidak telahir		olic party	ALTERNATION AND S
Contaminant	Range of % Removal Required	Range of percent removal achieved	Number of quarters out of compliance	Violation Y/N	Sources of Contamination
roc	15%	20%-100%	0	N	Naturally present in the environment

### OTHER VIOLATIONS

During the past year we failed to report CFE & IFE Turbidity Results by the required time to DEP. The reports were received and we achieved compliance.

# SPECIAL EDUCATION STATEMENT:

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. Our treatment process removes some nitrates so that the nitrate levels are always well below the MCL of 10ppm.

# **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:

- 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 stormwater runoff, 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 stormwater 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 stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

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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).

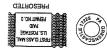
### Information about Lead

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. <u>GAFCWA</u> 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 water, you may wish to have your water tested. Information on lead in 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.

### OTHER INFORMATION:

The Greencastle Area, Franklin County, Water Authority is committed to providing our water customers safe, pure, clean water and to the responsible stewardship of that water. Providing, preserving and protecting our water resources through consistent testing, management of resources, funding of infrastructure improvements, and exemplary customer service are key objectives for the GAFCWA and its Authority Board. We continually strive to meet these objectives at the lowest possible cost to our water customers.

POSTAL CUSTOMER



Greencastle Area, Franklin County, Water Authority 60 North Washington Street Greencastle, PA 17225



# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF SAFE DRINKING WATER

# 2017 ANNUAL DRINKING WATER QUALITY REPORT

# PWSID #: 7280014 Greencastle Area, Franklin County, Water Authority (GAFCWA)

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.)

# WATER SYSTEM INFORMATION:

This report shows our water quality and what it means. If you have any questions about this report or concerning your water utility, please contact <u>Eden Rattliff</u> at 717-597-7143. 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 are held the Third Monday of each month at 6:45 PM at Council Hall, 60 N. Washington St., Greencastle, Pa. 17225.

# SOURCE(S) OF WATER:

Our water source(s) are Moss Spring located at Grant St., Eshelman-Spangler Spring at Long Lane, Ebberts Spring at Molly Pitcher Hwy. South, Wells #1 & #2 at Long Lane and Well #4 at Leitersburg St., Greencastle Pa.

A Source Water Assessment of our sources was completed by the PA Department of Environmental Protection (Pa. DEP). The Assessment has found that our sources are potentially most susceptible to road deicing materials, accidental spills along roads, various chemicals from manure, inks and dyes used in the printing process, cleaning solutions, and leaks in underground storage tanks. Overall, our sources have moderate risk of significant contamination. A summary report of the Assessment is available on the Source Water Assessment Summary Reports eLibrary web page:

http://www.elibrary.dep.state.pa.us/dsweb/View/Collection-10045. 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 South Central Regional Office, Records Management Unit at (717) 771-4481

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 according to federal and state laws. The following tables show the results of our monitoring for the period of January 1 to December 31, 2017. 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:**

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.

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