

Consumer Confidence Report – 2021

Covering Calendar Year – 2020

This brochure is a snapshot of the quality of the water that we provided last year. Included are the details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards. We are committed to providing you with information because informed customers are our best allies. If you would like to observe the decision-making process that affect drinking water quality, please call Jeff Pippel at 304-728-2077.

Your water comes from :

Source Name	Source Water Type
Walnut Grove WELL #1	Ground Water
Ambrose WELL #7	Ground Water
MEADOWBROOK WELL #8	Ground Water
MEADOWBROOK WELL #9	Ground Water
MEADOWBROOK WELL #10	Ground Water
BARDANE WELL #11	Ground Water
BARDANE WELL #12	Ground Water
BURR WELL #13	Ground Water under the Influence of Surface Water
SHENANDOAH JUNCTION WELL #15	Ground Water
SHENANDOAH JUNCTION WELL #16	Ground Water
WOODLAND WELL #17	Ground Water
WOODLAND WELL #18	Ground Water
Fox Glen WELL #19	Ground Water
Fox Glen WELL #20	Ground Water
Fox Glen WELL #21	Ground Water

Buyer Name	Seller Name
There are no additional purchases to display.	

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those 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).

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 EPA's Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) included 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 sources water before we treat it include:

Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, livestock operations and wildlife.

Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water 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 storm water run-off, agriculture, and residential users.

Radioactive contaminants, which can be naturally occurring or the result of mining activity.

Organic contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and also come from gas stations, urban storm water run-off, and septic systems.

In order to ensure that tap water is safe to drink, EPA prescribes regulation which limits the amount of certain contaminants in water provided by public water systems. We treat our water according to EPA's regulations. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Our water system has an estimated population of 13890 and is required to test a minimum of 8 samples per month in accordance with the Total Coliform Rule for

microbiological contaminants. Coliform bacteria are usually harmless, but their presence in water can be an indication of disease-causing bacteria. When coliform bacteria are found, special follow-up tests are done to determine if harmful bacteria are present in the water supply. If this limit is exceeded, the water supplier must notify the public.

Water Quality Data

The following tables list all of the drinking water contaminants which were detected during the 2020 calendar year. The presence of these contaminants does not necessarily indicate the water poses a health risk. Unless noted, the data presented in this table is from the testing done January 1- December 31, 2020. The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old.



Terms & Abbreviations

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 human health. MCLGs allow for a margin of safety.

Maximum Contaminant Level (MCL): the “Maximum Allowed” MCL is 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.

Secondary Maximum Contaminant Level (SMCL): recommended level for a contaminant that is not regulated and has no MCL.

Action Level (AL): the concentration of a contaminant that, if exceeded, triggers treatment or other requirements.

Treatment Technique (TT): a required process intended to reduce levels of a contaminant in drinking water.

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.

Non-Detects (ND): lab analysis indicates that the contaminant is not present.

Parts per Million (ppm) or milligrams per liter (mg/l)

Parts per Billion (ppb) or micrograms per liter (µg/l)

Picocuries per Liter (pCi/L): a measure of the radioactivity in water.

Millirems per Year (mrem/yr): measure of radiation absorbed by the body.

Monitoring Period Average (MPA): An average of sample results obtained during a defined time frame, common examples of monitoring periods are monthly, quarterly and yearly.

Nephelometric Turbidity Unit (NTU): a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person. Turbidity is not regulated for groundwater systems.

Running Annual Average (RAA): an average of sample results obtained over the most current 12 months and used to determine compliance with MCLs.

Locational Running Annual Average (LRAA): Average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.

Testing Results for: WALNUT GROVE UTILITIES

Microbiological	Result	MCL	MCLG	Typical Source
No Detected Results were Found in the Calendar Year of 2020				

Regulated Contaminants	Collection Date	Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source
ATRAZINE	6/11/2020	0.09	0.01 - 0.09	ppb	3	3	Runoff from herbicide used on row crops
BARIUM	2/26/2019	0.127	0.035 - 0.127	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
CADMIUM	3/5/2019	0.33	0 - 0.33	ppb	5	5	Corrosion of galvanized pipes; Erosion of natural deposits; Discharge from metal refineries; Runoff

Regulated Contaminants	Collection Date	Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source
							from waste batteries and paints
CHROMIUM	3/12/2019	2.2	1.5 - 2.2	ppb	100	100	Discharge from steel and pulp mills; Erosion of natural deposits
FLUORIDE	3/5/2019	0.57	0 - 0.57	ppm	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
NITRATE	6/11/2020	7.9	0 - 7.9	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
NITRATE-NITRITE	3/18/2020	6.78	3.46 - 6.78	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
SIMAZINE	6/11/2020	0.03	0 - 0.03	ppb	4	4	Herbicide runoff
THALLIUM, TOTAL	3/5/2019	0.66	0 - 0.66	ppb	2	0.5	Leaching from ore-processing sites; Discharge from electronics, glass, and drug factories
TRICHLOROETHYLENE	6/11/2020	2.7	0 - 2.7	ppb	5	0	Discharge from metal degreasing sites and other factories

Disinfection Byproducts	Sample Point	Monitoring Period	Highest LRAA	Range (low/high)	Unit	MCL	MCLG	Typical Source
TOTAL HALOACETIC ACIDS (HAA5)	ALSTADS HILL ROAD	2020	3	0 - 0.0068	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	TA LOWERY ELEM.	2020	4	0 - 0.0103	ppb	60	0	By-product of drinking water disinfection
TTHM	ALSTADS HILL ROAD	2020	15	0 - 0.0318	ppb	80	0	By-product of drinking water chlorination
TTHM	TA LOWERY ELEM.	2020	17	0 - 0.0504	ppb	80	0	By-product of drinking water chlorination

Lead and Copper	Monitoring Period	90 th Percentile	Range (low/high)	Unit	AL	Sites Over AL	Typical Source
COPPER, FREE	2020	0.123	0.003 - 0.172	ppm	1.3	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
LEAD	2020	2	0 - 3	ppb	15	0	Corrosion of household plumbing systems; Erosion of natural deposits

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. Your water system 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>.

Chlorine/Chloramines Maximum Disinfection Level	MPA	MPA Units	RAA	RAA Units
12/01/2020 - 12/31/2020	2	MG/L	1.9	MG/L

Unresolved Deficiency Date Identified	Facility	Comments
11/08/2017	WATER SYSTEM	TP5 is GWUDI source with filtration installed. The plant is operating without a Class II operator present at all times water is being treated. This plant was issued waiver to operate by automation in past but the criteria has changed and the waiver expired > 5 years ago. We have replied for the wavier again and have been waiting for the state to make a site visit and a decision on our application.

Analyte	Facility	Highest Value	Unit of Measure	Month Occurred
TURBIDITY	BURR TREATMENT PLANT	0.030	NTU	FEB 2020

Radiological Contaminants	Collection Date	Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source
COMBINED RADIUM (-226 & -228)	10/16/2018	0.819	0.819	pCi/L	5	0	Erosion of natural deposits
GROSS ALPHA, EXCL. RADON & U	9/2/2020	2.09	0.36 - 2.09	pCi/L	15	0	Erosion of natural deposits

Secondary Contaminants-Non Health Based Contaminants-No Federal Maximum Contaminant Level (MCL) Established.	Collection Date	Highest Value	Range (low/high)	Unit	SMCL
METOLACHLOR	12/21/2016	0.2	0 - 0.2	ppb	
NICKEL	2/26/2019	0.0039	0.0022 - 0.0039	MG/L	0.1
SODIUM	3/12/2019	55	6.12 - 55	MG/L	1000
SULFATE	12/21/2016	30.1	19.8 - 30.1	MG/L	250

During the 2020 calendar year, we had the below noted violation(s) of drinking water regulations.

Compliance Period	Analyte	Comments
10/1/2020	CONSUMER CONFIDENCE RULE	CCR ADEQUACY/AVAILABILITY/CONTENT
6/1/2020 - 8/31/2020	TRIHALOMETHANES	MONITORING, ROUTINE (DBP), MAJOR
6/1/2020 - 8/31/2020	HALOACETIC ACIDS	MONITORING, ROUTINE (DBP), MAJOR
3 rd qt 2019, 1,2,3,4 th qt 2020	RADIONUCLIDES	MONITORING, ROUTINE MAJOR

1/1/2020 - 12/31/2020 7/1/2019 – 9/30/2019	NITRATE	MONITORING, ROUTINE MAJOR
7/1/2019 – 9/30/2019 1/1/2020 - 12/31/2020	VOLATILE ORGANIC COMPOUNDS	MONITORING, ROUTINE MAJOR
1/1/2020 - 12/31/2020	ARSENIC TOTAL	MONITORING, ROUTINE MAJOR
1/1/2020 - 12/31/2020	INORGANICS	MONITORING, ROUTINE MAJOR
1/1/2020 - 12/31/2020	NITRITE	MONITORING, ROUTINE MAJOR
1/1/2017-12/31/2019 4/1/2020 - 6/30/2020 10/1/2020 - 12/31/2020	SYNTHETIC ORGANIC COMPOUNDS	MONITORING, ROUTINE MAJOR
4/1/2020 – 6/30/2020 7/1/2020 - 9/30/2020	TRICHLOROETHYLENE	MONITORING, ROUTINE MAJOR

Additional Required Health Effects Language:

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 periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider.

Your CCR is available at WWW.juiwater.net/ccr.html. To receive a paper copy in the mail, please contact us at the phone number above.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Walnut Grove WV3301942 did not meet scheduled monitoring requirements.

Our water system violated a drinking water reporting requirement the past year. Even though this was not an emergency, as our customers, you have a right to know what happened and what we did to correct this situation.

We are required to monitor your drinking water on a regular basis. Results of regular monitoring are an indicator of whether our drinking water meets health standards. During the dates described below, we did monitor for the required parameters, but the data was not delivered to us and in turn it was not sent to the state by the due date.

What should I do?

There is nothing you need to do currently.

The table below lists the monitoring we did not conduct, how often we are supposed to sample and how many samples we are supposed to take, how many samples we took and when the samples should have been taken.

Required Monitoring	Compliance period
72, Consumer Confidence Rule (CCR)	1/1/2019 to 12/31/19
03, Monitoring, Routine Major Trihalomethanes Results Not Reported	6/1/2020 – 9/30/2020
03, Monitoring, Routine Major Haloacetic Acid Results Not Reported	6/1/2020 – 9/30/2020
03, Monitoring, Routine Major Radionuclides Results Not Reported	3 rd Qt 2019; 1,2,3,4 th QT 2020

03, Monitoring, Routine Major Nitrate Results Not Reported	1/01/2020 to 12/31/2020
03, Monitoring, Routine Major Volatile Organic Compounds Results Not Reported	7/1/2019-9/30/2019; 1/1/220-12/31/2020
03, Monitoring, Routine Major Total Arsenic Results Not Reported	1/01/2020 to 12/31/2020
03, Monitoring, Routine Major Inorganic Compounds Results Not Reported	1/01/2020 to 12/31/2020
03, Monitoring, Routine Major Nitrite Results Not Reported	1/01/2020 to 12/31/2020
03, Monitoring, Routine Major Synthetic Organic Compounds Results Not Reported	1/1/2017-12/31/19; 2 nd Qt 2020, 4 th Qt 2020
03, Monitoring, Routine Major Trichloroethylene Results Not Reported	4/1/2020 – 6/30/2020; 7/1/2020 – 9/30/2020
36, Monitoring, RTN/RPT Major (SWTR-FILTER)	9/1/2018 – 9/30/2018
31, Monitoring, RTN/RPT Major (GWR)	9/1/2018 – 9/30/2018
Failure to correct significant deficiencies Identified on Sanitary Survey conducted on September 21, 2020	Within 120 days of written notification due January 21, 2021

What happened? What is being done?

The CCR was prepared by the state, and we thought that they kept on file for this requirement. We will be sending a copy of the CCR with the required certification letter to the state by the due date.

Trihalomethanes, Haloacetic Acids, Radionuclides, Nitrate, Volatile Organic Compounds, Total Arsenic, Inorganic Compounds, Nitrite, Synthetic Organic Compounds and Trichloroethylene were sampled in the correct period, but the contract laboratory did not return the results in a timely manner for us to submit the results to the State. The late submission to the state caused this violation.

Chlorine results were not received by the state upon faxing into them.

Samples were collected in the proper quarter, but the laboratory did not return the data until after the due date. We have switched laboratories to ensure a timely return of data.

We have submitted to the state, again, for an exemption to have an operator present when producing water. Due to the system running only when demand is needed.

For more information, please contact Jeff Pippel at 728-2077, 270 Industrial Blvd., Kearneysville, WV 25430.

This notice is being sent to you by Walnut Grove Water System
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