Uniontown Water & Sewer System 2023 Water Quality Report

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Meetings:	City Hall / 3rd Monday ea	ch month at 7pm			E126427

We purchase water from the City of Morganfield. The treatment plant withdraws surface water from the Ohio River. An analysis of the susceptibility to contamination at the Morganfield intake indicates that the threat is generally moderate. However, there are a few potential contaminant sources that rate high. These sources include: pesticide and nutrients from statewide coverage of row crops, underground injection sites, ten oil and gas wells, road-ways and bridges. Each of these is rated high in the susceptibility analysis due to the contaminant type, its proximity to the intake, and the likelihood of release. This is a partial listing of potential contaminant sources. These activities, and how they are conducted, are of interest to the entire community because they potentially affect your health and the cost of treating your water. Activities immediately upstream of your water supply intake are of special concern because they provide little response time to the water system operators. The complete Source Water Assessment Plan is available for review at the Morganfield Water Treatment Plant.

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 may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

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 may 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, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides, (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities). In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water to provide the same protection for public health.

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).

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 local water system is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact your local water system. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at http://www.epa.gov/safewater/lead.

Some or all of these definitions may be found in this report:

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.

Below Detection Levels (BDL) - laboratory analysis indicates that the contaminant is not present.

Not Applicable (N/A) - does not apply.

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.

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

Parts per trillion (ppt) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Parts per quadrillion (ppq) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000.

Picocuries per liter (pCi/L) - a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) - a measure of the clarity of water. Turbidity has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.

Variances & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

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

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

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.

To understand the possible health effects described for many regulated contaminants, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old. **Copies of this report are available upon request by contacting our office during business hours.**

Regulated Contaminant T	est Results	5			MORGAN	FIELD WA	TER DE	PARTMENT (KY1130293)	
Contaminant	MCL	MCLG	Report	F	Range	Date of	Violation	Likely Source of	
[code] (units)	MCL	MCLG	Level	of D	etection	Sample	violation	Contamination	
Inorganic Contaminant	S								
Barium									
[1010] (ppm)	2	2	0.043	0.043 1	to 0.043	Oct-23	No	Drilling wastes; metal refineries; erosion of natural deposits	
Fluoride [1025] (ppm)	4	4	0.82	0.82 1	to 0.82	Oct-23	No	Water additive which promotes	
[1020] (ppm)			0.02	0102	0102	00020		strong teeth	
Nitrate [1040] (ppm)	10	10	0.516	0.516	to 0.516	Feb-23	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of	
[1040] (ppm)	10	10	0.516	0.516 to	0.510	Feb-23	INO	natural deposits	
Disinfection Byproduct	Precurso	r							
Total Organic Carbon (ppm)			1.24						
(measured as ppm, but	TT*	N/A	(lowest	0.65 1	to 1.79	2023	No	Naturally present in environment.	
reported as a ratio)			average)	(mont	hly ratios)				
*Monthly ratio is the % TOC re	emoval achie	eved to the % TO	C removal re	quired. Annu	al average must	be 1.00 or grea	ter for comp	liance.	
Other Constituents									
Turbidity (NTU) TT	Al	lowable	High	est Single	Lowest				
* Representative samples	Levels		Measurement		Monthly %	Violation	Likely Source of Turbidity		
Turbidity is a measure of the	No more th	an 1 NTU*							
	Less than 0.3 NTU in					No	Soil runoff		
clarity of the water and not a	Less than 0	.3 NTU in	0	.167	100	No		Soil runoff	
	-		0	.167	100	No		Soil runoff	
clarity of the water and not a contaminant.	95% of mo	nthly samples	0				& SEWF		
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Violation: Stage 2 Disinfection By-products Rule (2024-9915327 & 2024-9915328)

Uniontown received two violations for exceeding the maximum contaminant level (MCL) of 0.080 mg/l for Trihalomethane (THM). This is determined by averaging all the samples collected at each sampling location for the past 12 months. The level of TTHM averaged at one of our system's locations from 7/1/2023 – 9/30/2023 and 10/1/2023 - 12/31/2023 was 0.085 mg/L and 0.086 mg/L, respectively. We have increased distribution system flushing while Morganfield continues to optimize the treatment process to reduce THM concentration. We anticipate returning to compliance by December 31, 2024. The public notice for these violations was distributed to all customers by mail.

Health Effects:

TTHMs [Total Trihalomethanes]. Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.