

- Repeat steps 1 and 2 for each page.
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2022 \_\_\_\_\_ **ANNUAL DRINKING WATER QUALITY REPORT**

**PWSID #:** 6530006 \_\_\_\_\_ **NAME:** Ulysses Municipal Authority \_\_\_\_\_

*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 Kirsten Williams \_\_\_\_\_ at 814-848-7551 \_\_\_\_\_. 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 7:30 p.m. on the first Tuesday of each month in the Ulysses Borough Community Building \_\_\_\_\_.

**SOURCE(S) OF WATER:**

Our water source(s) is/are: (Name-Type-Location)

Our water sources are groundwater and include 3 wells and a spring fed reservoir. Wells 1&2 are located at 417 & 419 Church Street, Well 3 is located at 330 South street and Big Spring Reservoir is located approximately 200 yards behind 333 South Street. Although we have discontinued the use of Well 1& 2 they are still available for use as emergency sources with a required Boil Water Advisory

A Source Water Assessment of our source(s) was completed by the PA Department of Environmental Protection (Pa. DEP). The Assessment has found that our source(s) of is/are potentially most susceptible to [insert potential Sources of Contamination listed in your Source Water Assessment Summary]. Overall, our source(s) has/have [little, moderate, high] risk of significant contamination. A summary report of the Assessment is available on the Source Water Assessment Summary Reports eLibrary web page: [www.elibrary.dep.state.pa.us/dsweb/View/Collection-10045](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 North Central Regional Office, Records Management Unit at (570) 327-3636.

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).

### **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, 2022. 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.

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

*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)

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

*ppb* = parts per billion, or micrograms per liter ( $\mu\text{g/L}$ )



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

ppq = parts per quadrillion, or picograms per liter

ppt = parts per trillion, or nanograms per liter

**DETECTED SAMPLE RESULTS:**

<b>Chemical Contaminants</b>								
<b>Contaminant</b>	<b>MCL in CCR Units</b>	<b>MCLG</b>	<b>Level Detected</b>	<b>Range of Detections</b>	<b>Units</b>	<b>Sample Date</b>	<b>Violation Y/N</b>	<b>Sources of Contamination</b>
Nitrate	10	10	4.9	4.9	MG/L	2022	N	Erosion of natural deposits; Runoff from fertilizer use; leaching from septic tanks
Flouride	2	2	0.19	0.19	ppb	2018	N	Erosion of Natural Deposits; water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Trihalomethanes	80	80	25.7	25.7	ppb	2021	N	When chlorine reacts with naturally occurring organic and inorganic matter in water
Haloacetic Acids (five)	60	0.60	8.5	8.5	ppb	2020	N	By-product of drinking water disinfection
Chromium	100	.1	1.03	1.03	ppb	2018	N	Discharge from steel and pulp mills; Erosion of natural deposits
Barium	2	2	0.174	0.174	ppm	2018	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits

Arsemic	10	0.01	0.555	0.555	ppb	2018	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronic production wastes.
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\*EPA's MCL for fluoride is 4 ppm. However, Pennsylvania has set a lower MCL to better protect human health.

<b>Entry Point Disinfectant Residual</b>							
Contaminant	Minimum Disinfectant Residual	Lowest Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
Free Chlorine	0.40	0.02	0.02-2.9	ppm	8/25/2022	N	Water additive used to control microbes.

<b>Lead and Copper</b>							
Contaminant	Action Level (AL)	MCL G	90 <sup>th</sup> Percentile Value	Units	# of Sites Above AL of Total Sites	Violation Y/N	Sources of Contamination
Lead	15	0	5.01	ppb	20	N	Corrosion of household plumbing.
Copper	1.3	1.3	5.355	ppm	20	Y	Corrosion of household plumbing.

**Microbial (related to Assessments/Corrective Actions regarding TC positive results)**

Contaminants	TT	MCLG	Assessments/ Corrective Actions	Violatio n Y/N	Sources of Contaminatio n
Total Coliform Bacteria	Any system that has failed to complete all the required assessments <b>or</b> correct all identified sanitary defects, is in violation of the treatment technique requirement	N/A	See detailed description under "Detected Contaminants Health Effects Language and Corrective Actions" section	N	Naturally present in the environment.

**Microbial (related to *E. coli*)**

Contaminants	MCL	MCLG	Positive Sample(s)	Violatio n Y/N	Sources of Contaminatio n
<i>E. coli</i>	Routine and repeat samples are total coliform-positive <b>and</b> either is <i>E. coli</i> -positive <b>or</b> system fails to take repeat samples following <i>E. coli</i> -positive routine sample <b>or</b> system fails to analyze total coliform-positive repeat sample for <i>E. coli</i> .	0	No	N	Human and animal fecal waste.
Contaminants	TT	MCLG	Assessments/ Corrective Actions	Violatio n Y/N	Sources of Contamination

<i>E. coli</i>	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	See description under "Detected Contaminants Health Effects Language and Corrective Actions" section	N	Human and animal fecal waste.
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<b>Raw Source Water Microbial</b>					
<b>Contaminants</b>	<b>MCLG</b>	<b>Total # of Positive Samples</b>	<b>Dates</b>	<b>Violation Y/N</b>	<b>Sources of Contamination</b>
<i>E. coli</i>	0	0	2022	N	Human and animal fecal waste.



**DETECTED CONTAMINANTS HEALTH EFFECTS LANGUAGE AND CORRECTIVE ACTIONS:**

As you can see by the tables in this report, no MCL's or treatment techniques were exceeded in 2022. Therefore it is unnecessary to include any health effects.

**OTHER VIOLATIONS:**

Trihalomethanes (TTHM) fail to monitor, Chlorine weekly distribution fail or violation August, and October, Nitrate and Nitrite fail or violation monitoring reporting.

**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 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 stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts 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.

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