

2021 ANNUAL WATER QUALITY REPORT

PALMYRA WATER COMPANY

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We are pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) for January 1 - December 31, 2021. It provides details about where your water comes from, what it contains, and how it compares to the standards set by regulatory agencies. We routinely monitor for constituents mandated by the EPA (Environmental Protection Agency) and IDEM (Indiana Department of Environmental Management). Our goal is to provide you with a safe and dependable supply of drinking water.

Palmyra Utilities purchases 100% of our water from the Ramsey Water Company. Included is the Ramsey Water Annual Report with their test results. Also included are the results for Indiana-American Water Company, which Ramsey Water Company may purchase from. If you have questions about this report or the water utility, please contact the Palmyra Town Hall office at 812-364-6106. The following report was prepared from the Ramsey Water Company Annual Report to inform you about the quality water and services we deliver to you every day.

HOW CAN YOU GET INVOLVED?

Your involvement starts with the environment around you. Surface water and groundwater are continually being impacted by your actions. The most effective way to prevent groundwater contamination is through education about potential contamination sources and how to minimize or eliminate them completely.

WATER INFORMATION RESOURCES:

- **IDEM** (*Indiana Department of Environmental Management*) – www.in.gov/idem
- **EPA** (*Environmental Protection Agency*) – www.epa.gov/safewater
- **CDC** (*Center for Disease Control*) – www.cdc.gov
- **Safe Drinking Water Hotline** – 800-426-4791

IMPORTANT INFORMATION FOR THE SPANISH-SPEAKING POPULATION: (ESPAÑOL)

Este informe contiene información muy importante sobre la calidad de su agua potable. Por favor lea este informe o comuníquese con alguien que pueda traducir la información.

WHERE DOES YOUR WATER COME FROM?

Your drinking water comes from two different sources. One water source is from wells located in the Ohio River Basin in Crawford County. Additionally, we purchase water from Indiana-American Water Company, which has wells located in Clark County. We also have a source water assessment plan available at our office that integrates geology and potential sources of contamination in the Wellhead Protection Area.

WHY ARE THERE CONTAMINANTS IN YOUR DRINKING WATER?

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 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 agriculture, urban storm water 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 storm water 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 prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) 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.

DO YOU NEED TO TAKE SPECIAL PRECAUTIONS?

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 or the Safe Drinking Water Hotline at 800-426-4791.

ADDITIONAL HEALTH EFFECTS YOU SHOULD KNOW ABOUT:

Copper is an essential nutrient, but some people who drink water containing Copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing Copper in excess of the action level over many years can suffer liver or kidney damage.

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. We are 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.



PALMYRA WATER WORKS TEST RESULTS – IN5231004

Regulated Contaminants:

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation? Y/N	Likely Source of Contamination
Haloacetic Acids (HAA5)	2021	3.6	0.0059 - 3.60	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2021	24.4	0.0300 - 24.40	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
Chlorine	2021	1.6	0.6 - 1.6	MRDLG=4	MRDL=4	ppm	N	Water additive used to control microbes.
Lead and Copper*	Collection Date	MCLG	Action Level (AL)	90th Percentile	# Sites over AL	Units	Violation? Y/N	Likely Source of Contamination
Copper	2019	1.3	1.3	0.360	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2019	0	15	<1.0	0	ppb	N	Erosion of natural deposits; Corrosion of household plumbing systems.

*20 sites were sampled for Lead and Copper.

Contaminant	Date	Violation	Corrective Action
Total Coliform	June 2021	Failure to collect and submit one (1) of the required five (5) routine distribution sample results for Total Coliform	Corrected site sample plan.

IMPORTANT DRINKING WATER DEFINITIONS:

In the tables, you will find many terms and abbreviations that you may not be familiar with. To help you better understand these terms, we've provided the following definitions:

- **AL (Action Level):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements a water system must follow.
- **AVG (Average):** Regulatory compliance with some MCLs are based on running annual averages of monthly or quarterly samples.
- **MCL (Maximum Contaminant Level):** 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.
- **MCLG (Maximum Contaminant Level Goal):** 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.
- **MRDL (Maximum Residual Disinfectant Level):** 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.
- **MRDLG (Maximum Residual Disinfection Level Goal):** 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.
- **NA (Not Applicable):** Does not apply to this water system.
- **ND (Not Detected):** Laboratory analysis determined the constituent was not present at detection limits.
- **PPB (Part Per Billion or microgram per liter (ug/l)):** One part per billion equates to one minute in 2,000 years, or a single penny in \$10,000,000.
- **PPM (Part Per Million or Milligram per liter (mg/l)):** One part per million equates to one minute in two years, or a single penny in \$10,000.



Water Conservation Advice for Residents

Tips from www.epa.gov

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| <ul style="list-style-type: none"> • Repair leaky faucets, indoors and out. • Consider replacing old equipment (like toilets, dishwashers and laundry machines). • When cooking, peel and clean vegetables in a large bowl of water instead of under running water. | <ul style="list-style-type: none"> • Repair leaky toilets. Add 12 drops of food coloring into the tank, and if color appears in the bowl one hour later, your toilet is leaking. • Run full loads of laundry. • Only run the dishwasher when it's full. | <ul style="list-style-type: none"> • When buying a dishwasher, select one with a "light-wash" option. • Take short showers instead of baths. • Turn off the water to brush teeth, shave and soap up in the shower. Fill the sink to shave. |
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RAMSEY WATER COMPANY TEST RESULTS – IN5231005

Regulated Contaminants:

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation? Y/N	Likely Source of Contamination
Haloacetic Acids (HAA5)	2021	18	9.5 - 28.8	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2021	41	19.2 - 56.7	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
Chlorine	2021	1	1-1	MRDLG=4	MRDL=4	ppm	N	Water additive used to control microbes.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation? Y/N	Likely Source of Contamination
Barium	2020	0.101	0.101 - 0.101	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2020	0.691	0.691 - 0.691	4	4	ppm	N	Erosion of natural deposits; Water additive that promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate (measured as Nitrogen)	2021	1	0.501 - 0.501	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Arsenic	2020	1.6	1.6 - 1.6	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Lead and Copper*	Collection Date	MCLG	Action Level (AL)	90th Percentile	# Sites over AL	Units	Violation? Y/N	Likely Source of Contamination
Copper	2020	1.3	1.3	0.682	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2020	0	15	1	1	ppb	N	Erosion of natural deposits; Corrosion of household plumbing systems.

*30 sites were sampled for Lead and Copper.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation? Y/N	Likely Source of Contamination
Gross alpha excluding radon and uranium	2017	1.5	1.5 - 1.5	0	15	pCi/L	N	Erosion of natural deposits.
Coliform Bacteria	Total Coliform Maximum Contaminant Level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation? Y/N	Likely Source of Contamination		
Maximum Contaminant Level Goal: 0	1 positive monthly sample	1		0	N	Naturally present in the environment.		

INDIANA-AMERICAN WATER COMPANY TEST RESULTS – IN5210005

Regulated Contaminants:

Disinfectants and Disinfection By-Products	Collection Date	Compliance Achieved	Highest Level Detected	Range Detected	MCLG	MCL	Likely Source of Contamination	
Haloacetic Acids (HAA5)	2021	Yes	13.3	12.6 - 13.3	NA	60	By-product of drinking water disinfection.	
Total Trihalomethanes (TTHM)	2021	Yes	32.0	29.8 - 32.0	NA	80	By-product of drinking water disinfection.	
Disinfectants and Disinfection By-Products	Collection Date	Compliance Achieved	Compliance Result	Minimum Chlorine Residual	Range of Levels Detected	MRDLG	MRDL	Likely Source of Contamination
Chlorine	2021	Yes	1.41	0.2	1.05 - 1.49	4	4	Water additive used to control microbes.
Inorganic Contaminants	Collection Date	Compliance Achieved	Highest Compliance Result	MCLG	MCL	Range Detected	Likely Source of Contamination	
Fluoride	2021	Yes	0.77	4	4	NA	Erosion of natural deposits; Water additive that promotes strong teeth; Discharge from fertilizer and aluminum factories.	
Nitrate (measured as Nitrogen)	2021	Yes	0.42	10	10	NA	Runoff from fertilizer use; Industrial or domestic wastewater discharge; Erosion of natural deposits.	
Lead and Copper*	Collection Date	Compliance Achieved	MCLG	Action Level	90th Percentile	# Sites over AL	Violation? Y/N	Likely Source of Contamination
Copper	2021	Yes	1.3	1.3	0.622	0	N	Corrosion of household plumbing systems.
Lead	2021	Yes	0	15	ND	0	N	Corrosion of household plumbing systems.

*30 sites were sampled for Lead and Copper.