

**ORLEANS WATER WORKS**  
**Public Water Supply ID: IN5259003**

Consumer Confidence Report

# 2025 CCR

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**Annual Drinking Water Quality Report**

**ORLEANS WATER WORKS**

**Public Water System ID: IN5259003**

We are pleased to present to you the Annual Water Quality Report (Consumer Confidence Report) for the year, for the period of January 1 to December 31, 2025. This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water. (Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien).

For more information regarding this report, contact:

**Name: Robert F. Henderson, Clerk-Treasurer      Phone: 812-865-2539**

If you want to learn more about your water utility, we invite you to attend our regular meetings at the Orleans Town Hall at 5:00 p.m. on the third Thursday of each month at 161 Price Ave., Orleans, IN 47452. In addition, we meet on the first Wednesday of each month at 9:00 a.m. for a work-study session at the same location.

## Sources of Drinking Water

ORLEANS WATER WORKS is Purchased surface water.

Our water source(s) and source water assessment information are listed below:

Source Name		Type of Water	Report Status	Location
PATOKA LAKE REGIONAL- IN5219012	SOUTH PIT	Surface water		
PATOKA LAKE REGIONAL- IN5219012	NORTH PIT	Surface water		
PATOKA LAKE REGIONAL- IN5219012	575 EAST	Surface water		
PATOKA LAKE REGIONAL- IN5219012	WEST VINCENNES	Surface water		
MITCHELL - WELL #1 – IN5247003	INTERCONNECTION	Ground water		
MITCHELL - WELL #2 – IN5247003	INTERCONNECTION	Ground water		
MITCHELL - WELL #3 – IN5247003	INTERCONNECTION	Ground 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 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.

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 at (800) 426-4791. Contaminants that may be present in source water include:

A service line inventory has been prepared and can be accessed at: <https://pws-ptd.120wateraudit.com/OrleansWW-IN>.

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.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office.

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 effects in people of all ages, especially pregnant people, infants (both formula-fed and breastfed), and young children. Lead in drinking water is primarily from materials and parts used in service lines and in home plumbing. ORLEANS WATER WORKS is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in the plumbing in your home. Because lead levels may vary over time, lead exposure is possible even when your tap sampling results do not detect lead at one point in time. You can help protect yourself and your family by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Using a filter, certified by an American National Standards Institute accredited certifier to reduce lead, is effective in reducing lead exposures. Follow the instructions provided with the filter to ensure the filter is used properly. Use only cold water for drinking, cooking, and making baby formula. Boiling water does not remove lead from water. Before using tap water for drinking, cooking, or making baby formula, flush your pipes for several minutes. You can do this by running your tap, taking a shower, doing laundry or a load of dishes. If you have a lead service line or galvanized requiring replacement service line, you may need to flush your pipes for a longer period. If you are concerned about lead in your water and wish to have your water tested, contact ORLEANS WATER WORKS at (812) 865-2739. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <https://www.epa.gov/safewater/lead>.

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

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

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.

Maximum Contaminant Level or 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 or 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 goal or 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.

Maximum residual disinfectant level or 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.

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Avg: Average - Regulatory compliance with some MCLs are based on running annual average of monthly samples.

RAA: Running Annual Average.

LRAA: Locational Running Annual Average.

mrem: millirems per year (a measure of radiation absorbed by the body).

ppb: micrograms per liter (ug/L) or parts per billion - or one ounce in 7,350,000 gallons of water.

ppm: milligrams per liter (mg/L) or parts per million - or one ounce in 7,350 gallons of water.

picocuries per liter (pCi/L): picocuries per liter is a measure of the radioactivity in water.

na: not applicable.

Our water system tested a minimum of 2 sample(s) per month in accordance with the Total Coliform Rule for microbiological contaminants. With the microbiological samples collected, the water system collects disinfectant residuals to ensure control of microbial growth.

Disinfectant	Date	Highest RAA	Unit	Range	MRDL	MRDLG	Typical Source
CHLORINE	2025	1	ppm	-	4	4	Water additive used to control microbes

### **Regulated Contaminants**

In the tables below, we have shown the regulated contaminants that were detected. Chemical Sampling of our drinking water may not be required on an annual basis; therefore, information provided in this table refers back to the latest year of chemical sampling results.

Unregulated Contaminant Monitoring Rule (UCMR)	Collection Date of HV	Highest Value (HV)	Range of Sampled Result(s)	Unit
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Lead and Copper	Period	90TH Percentile: 90% of your water utility levels were less than	Range of Sampled Results (low - high)	Unit	AL	Sites Over AL	Typical Source
COPPER, FREE	2022 - 2024	0.296	0.016 - 0.366	ppm	1.3	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
LEAD	2022 - 2024	1.85	0 - 4.08	ppb	15	0	Corrosion of household plumbing systems; Erosion of natural deposits

Disinfection Byproducts	Sample Point	Period	Highest LRAA	Range	Unit	MCL	MCLG	Typical Source
TOTAL HALOACETIC ACIDS (HAA5)	1018 S MAPLE ST	2025	41.3	10.9	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	830 N MAPLE ST	2025	42	11.4	ppb	60	0	By-product of drinking water disinfection
TTHM	1018 S MAPLE ST	2025	49	20.9	ppb	80	0	By-product of drinking water chlorination
TTHM	830 N MAPLE ST	2025	43.1	21.1	ppb	80	0	By-product of drinking water chlorination

Regulated Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
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There are no additional required health effects notices.

There are no additional required health effects violation notices.

## **Deficiencies**

Unresolved significant deficiencies that were identified during a survey done on the water system are shown below.

Date Identified	Facility	Code	Activity	Due Date	Description
6/9/2022	4-STORAGE TANK #1	FW08	SANITARY SURVEY LETTER RESPONSE	7/6/2025	Related appurtenances are not appropriately constructed and located
6/4/2025	3-DISTRIBUTION SYSTEM	DS10	SANITARY SURVEY LETTER RESPONSE	7/6/2025	System has greater than 25% water loss

## **Reseller Contaminants**

Regulated Contaminants	Collection Date	Water System	Highest Sample Result	Range of Sampled Result(s) (low - high)	Unit	MCL	MCLG	Typical Source
ATRAZINE	2/4/2025	PATOKA LAKE REGIONAL WATER	0.11	0 - 0.11	ppb	3	3	Runoff from herbicide used on row crops
BARIUM	8/5/2025	PATOKA LAKE REGIONAL WATER	0.025	0.025	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
BARIUM	6/3/2025	MITCHELL WATER DEPARTMENT	0.039	0.039	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
FLUORIDE	8/5/2025	PATOKA LAKE REGIONAL WATER	0.42	0.42	ppm	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
FLUORIDE	6/3/2025	MITCHELL WATER DEPARTMENT	0.123	0.123	ppm	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
NITRATE	6/3/2025	MITCHELL WATER DEPARTMENT	2.45	2.45	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
NITRATE-NITRITE	6/3/2025	MITCHELL WATER DEPARTMENT	2.45	2.45	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Disinfection Byproducts	Monitoring Period	Water System	Highest LRAA	Range of Sampled Result(s) (low - high)	Unit	MCL	MCLG	Typical Source
TOTAL HALOACETIC ACIDS (HAA5)	2025	MITCHELL WATER DEPARTMENT	3	3.19	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	2025	PATOKA LAKE REGIONAL WATER	34	25 - 37	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	2025	PATOKA LAKE REGIONAL WATER	35	25 - 43.5	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	2025	PATOKA LAKE REGIONAL WATER	32	4.5 - 40	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	2025	PATOKA LAKE REGIONAL WATER	38	22.5 - 38	ppb	60	0	By-product of drinking water disinfection
TTHM	2025	MITCHELL WATER DEPARTMENT	9	9.17	ppb	80	0	By-product of drinking water chlorination
TTHM	2025	PATOKA LAKE REGIONAL WATER	41	22.3 - 46	ppb	80	0	By-product of drinking water chlorination
TTHM	2025	PATOKA LAKE REGIONAL WATER	43	21.3 - 48.2	ppb	80	0	By-product of drinking water chlorination
TTHM	2025	PATOKA LAKE REGIONAL WATER	42	21.7 - 46.1	ppb	80	0	By-product of drinking water chlorination
TTHM	2025	PATOKA LAKE REGIONAL WATER	40	21.4 - 42.44	ppb	80	0	By-product of drinking water chlorination

Water System Name	Determination Date	Deficiency Description	Comments
4-STORAGE TANK #1	6/9/2022	Related appurtenances are not appropriately constructed and located	327 IAC 8-2-8.2(e)(7)(E)(ii) Communication cables need to be removed from the ladder handrail on the Industrial tank during the next maintenance event.
3-DISTRIBUTION SYSTEM	6/4/2025	System has greater than 25% water loss	Deficiency - 327 IAC 8-2-8.2(e)(3)(D) The water loss percentage on the past IFA water audit was 35%. The system must determine the best methods for reducing water loss. This may involve locating and repairing water line breaks and leaks, replacing meters to ensure accurate billing, and tracking non-metered usage. This deficiency is a repeat violation and is automatically significant.

There are no additional required health effects notices from Purchases.

## ***Reseller Violations and Health Effects Information***

During the 2025 calendar year, the water system(s) that we purchase water from had the below noted violation(s) of drinking water regulations.

<b>Water System</b>	<b>Type</b>	<b>Category</b>	<b>Analyte</b>	<b>Compliance Period</b>
MITCHELL - IN5247003	LEAD CONSUMER NOTICE (LCR)	RPT	LEAD & COPPER RULE	1/1/2024 - 2/4/2025
MITCHELL - IN5247003	CCR ADEQUACY/AVAILABILITY/CONTENT	RPT	CONSUMER CONFIDENCE RULE	7/1/2025
MITCHELL - IN5247003	NOTIFICATION, KNOWN OR POTENTIAL LSL	RPT	LEAD AND COPPER RULE REVISIONS	7/2/2025
MITCHELL - IN5247003	CCR ADEQUACY/AVAILABILITY/CONTENT	RPT	CONSUMER CONFIDENCE RULE	10/1/2025

There are no additional required health effects violation notices from Purchases.