



Otwell Water Corporation
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USE WATER WISELY

Good News!

The Middle Patoka Source Water Protection Grant is actively at work in our area. This 319 Grant is a collaboration between both Federal/State Officials. (EPA/IDEM) and local Steering Committee participants from our community. The improvements that affect the water quality of the Middle Patoka River Region and its tributaries. If you want more information or would like to get involved in this wonderful program that is truly making a difference in our community, please go to:

www.patokawatershed.org<<http://www.patokawater shed.org>>.

Terms and Definitions to Table

ppb – parts per billion, or microgram per liter (ug/l)

ppm – parts per million, or milligram per liter (mg/l)

pCi/L – Picocuries per liter is a measure of the radioactivity in water.

MRAA–Maximum running annual average

EPA – Environmental Protection Agency

IDEM – Indiana Department of Environmental Management

N/A – Either not available or not applicable

ND – Not detected, the result were not detected at or above the analytical method detection

P* – Potential violation, one that is likely to occur in the near future once the system has been sampled for four quarters.

NRDWR – National Primary Drinking Water Regulations

AL – Action Level is the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a system must follow.

MCL – Maximum Contaminant Level – “The Maximum Allowed” is the highest level of a contaminant that is allowed in drinking water. MCL’s are set as close to MCLG’s as feasible using the best available treatment technology.

MCLG – Maximum Contaminant Level Goal – The “Goal” is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG’s allow for a margin of safety.

MRDL – Maximum residual Disinfectant Level – The highest level of a disinfectant allowed in drinking water.

MRDLG – Maximum Residual Disinfectant Level Goal – The level of a drinking water disinfectant below which there is no known or expected risk to health.

TT – Treatment Technique – A treatment is a required process intended to reduce the level of a contaminant in drinking water.

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

2017 Water Board

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Helpful Comparisons for Use in Consumer Confidence Reports

Often the measures used for detected contaminants are confusing to consumers. Terms such as one part per million and one part per billion are hard to visualize and grasp. Consider using comparisons to explain the contaminant amounts found in water.

Think of one part per million as:

- 1 inch in 16 miles
- 1 minute in 2 years
- 1 cent in \$10,000

Think of one part per billion as:

- 1 inch in 16,000 miles
- 1 second in 32 years
- 1 cent in \$10 million

Using these comparisons may help your customers understand the significance of a detected level in your drinking water.

Environmental Protection Agency



Otwell Water Corporation
2017
Annual Water Quality Report
Otwell Water Corporation/Petersburg Report
PWSID#5263001



We are very pleased to provide you with this year's Annual Water Quality Report. We want to keep you informed about the excellent water and services we have delivered to you over the past year. Our goal is and always has been, to provide to you a safe and dependable supply of drinking water. Our water source is ground water. We purchase water from Petersburg Municipal Utilities, their wells draw from the "Surficial Sand & Gravel Aquifer," which is located on River Road. Petersburg has a Well head Protection Plan which was approved on January 26, 2004

The President of the water corporation, Gary J. Pride, is proud to report that our drinking water is safe and meets federal and state requirements.

If you have any questions about this report or concerning your water utility, please contact Keith Breidenbaugh, Water Superintendent at 812-354-2256. We want our customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the first Tuesday of every month at 7:00 p.m. at the water office in Otwell, 2055 N St Rd. 257. The annual meeting is held the second Tuesday in January. January 8, 2019.

Otwell Water Corporation routinely monitors for constituents in your drinking water according to Federal and State laws. The table shows the results of our monitoring for the period of January 1st to December 31st, 2017. Not all testing is required every year, and if we were not required to monitor for something in 2017, then our results are for the most recent round of testing.

In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we have provided the following definitions and terms in the chart.

Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

As you can see by the table, our system had no violations. We are proud that your drinking water meets or exceeds all Federal and State requirements. We have learned through our monitoring and testing that some constituents have been detected. The EPA has determined that your water IS SAFE at these levels.

All sources of drinking water are subject to potential contamination by constituents that are naturally occurring or man made. Those constituents can be microbes, organic or inorganic chemicals, or radioactive materials.

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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

The sources of drinking water (both tap 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 radioactive material, and can pick up substances resulting from the presence of animals or 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, wildlife.

Inorganic contaminants, such as salts and metals, Which can be naturally occurring or result from urban storm 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, storm water runoff, and residential uses.

Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products or industrial processes and petroleum 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.

MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, 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.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immune-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 their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

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. Our 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>.

Please call our office if you have any questions, 354-2256.

We at the Otwell Water Corporation work to provide top quality water to every tap.

We ask that all our customers help us protect our water sources.

**OTWELL
WATER CORPORATION TESTING TABLE**

<i>Constituents</i>	<i>Date Tested</i>	<i>Unit</i>	<i>MCL</i>	<i>MCLG</i>	<i>Detected Level</i>	<i>Range</i>	<i>Violation</i>	<i>Major Sources</i>
INORGANIC CONSTITUENTS								
Antimony	2/17/14	ppm	0.006		0.005		N	Erosion of natural deposits.
Cyanide Free	2/17/14	ppm	0.2		0.005		N	Erosion of natural deposits
Copper	8-27-15	ppm	AL=1.3	1.3	.0148	90 th Percentile	N	Corrosion of household plumbing
Fluoride	2017	ppm	4	4	0.15		N	Water additive for strong teeth.
Gross Alpha	2017	pci/2	15	0	0.92		N	Erosion of natural deposits
Nitrate (as N)	2017	ppm	10	10	1		N	Runoff from fertilizer use; Leaching from septic tanks, sewage.
Lead	8/27/15	ppm	0.0	1.5	0.002	90 th Percentile	N	Corrosion of household plumbing systems; erosion of natural deposits.
Arsenic	9/19/11	ppm	0.010	0	0.0010		N	Erosion of Natural Deposits
Sodium	2/17/14	ppm	0	0	0.500		N	Erosion of Natural Deposits
DISINFECTION BYPRODUCTS & PRECURSORS								
HAA5 (Total Halo acetic Acids)	2017	ppb	60.00		38	16.9-65.9	Y	Disinfection process by product
TTHM (Total Trihalomethanes)	2017	ppb	80.00		38	173.7-76.7	Y	Disinfection process by product
Certification of MCL for Haloacetic Acids in public notice with Press Dispatch. State Changed schedule for TTHM & HAA .								
RADIOLOGICAL CONTAMINANTS								
Uranium	2011	mg/l	.03	0	.0027		N	Erosion of Natural Deposits.
Chlorine Residual	2017	mg/l	4		1	.047-.1.21	N	Disinfectant used to control Microbiological organisms.

PATOKA LAKE REGIONAL WATER & SEWER DISTRICT WATER TESTING TABLE

<i>Constituents</i>	<i>Date Tested</i>	<i>Unit</i>	<i>MCL MRDL</i>	<i>MCLG MRDLG</i>	<i>MRAA</i>	<i>Range</i>	<i>Violation</i>	<i>Major Sources</i>
DISINFECTION PROCESS BYPRODUCTS								
Total halo acetic Acids (4)	2017	Ppb	60		38	29-47	N	Disinfection process by Product.
TTHM'S (total Trihalomethanes)	2017	Ppb	80.00		39	27.5-60.3	N	Disinfection process by Product.
INORGANIC CONSTITUENTS								
Fluoride	2017	Ppm	4	4	.0.6	0.6-0.6	N	Water additive which Promotes strong teeth
Copper	2017	Ppm	AL=1300		0.24	90 th percentile	N	Corrosion of household Plumbing.
Lead	2017	Ppb	AL=15		5	90 th percentile	N	Corrosion of household Plumbing
(for Lead & Copper the number of samples above AL is 0)								
Sodium	2016	PPM	none	none	2.3		N	Erosion of natural deposit
Barium	2016	PPM	2	2	0.03		N	Erosion of natural deposit
Gross Alpha	2017	pCi/L	15	0	0.99	N		Erosion of natural deposit
Radium 226	2016	pCi/L		0	0.14—0.08		N	Erosion of natural deposit
Radium 228	2016	pCi/L		0	0.083—0.45		N	Erosion of natural deposit
Radium Combined	2016	pCi/L	40	0	0.97—0.46		N	Erosion of natural deposit
Radium Synthetic Organic	2016	pCi/L	40	0	0.97—0.46		N	Erosion of natural deposit
Atrazine	2017				0.2	0.2		
TURBIDITY								
Daily	2017	NTU	TT=0.3	N/A	0.22	ighest reading	N	
Turbidity does not present any risk to your health. Turbidity is a measure of suspended matter in water, and is a good indicator that the filtration system is functioning.								
Total Organic Carbon								
Average Percent of Removal		%	25%	100%	28.0%	20.5% to 36.8%	N	Erosion of natural deposit
UNREGULATED CONTAMINANTS								
EPA is preparing a regulation, which will specify a Maximum Contaminant Level for radon. Radon is a radioactive gas that occurs naturally in ground water and is released from water into the air during household use. At high exposure levels it can cause lung cancer. Radon was not detected in the treated finished water distributed by Patoka Lake Regional Water and Sewer District.								
Chloramines	Daily	Ppm	4.0	4.0	3	4.0 to 2.1	N	Added for Disinfection