## FERDINAND WATER DEPARTMENT ANNUAL WATER QUALITY REPORT 2016

**INTRODUCTION** The Ferdinand Water Department is proud to provide high quality drinking water and fire protection to our customers. This annual water quality report shows the source of our water, contains important information about water and health issues, and lists the results of our tests. The Ferdinand Water Department will notify you immediately if there is any reason for concern about our water. We are proud to show you that the water we provide to you has surpassed EPA water quality standards. The water in our lines undergoes rigorous testing for over 80 contaminants according to government requirements. As you will see in the following table, we detected only ten (10) items in the water, and all of those items were at safe levels below the MCLG. The Ferdinand Water Department conducts

The Ferdinand Water Department conducts monthly public meetings on the second Tuesday of each month at 7:30pm at the Town Hall located at 2065 Main Street in Ferdinand. Please feel free to attend and participate in these meetings.

**OVERVIEW** The Ferdinand Water

Department provides water for 976 meters and fire protection in the Town of Ferdinand. All of the water for our system is purchased from Patoka Lake Regional Water & Sewer District located at 2647 North State Road 545 in Dubois, Indiana. Patoka provides us with a high quality of water that meets or exceeds the testing and reporting requirements of the National Primary Drinking Water Regulations (NPDWR), EPA and IDEM. Patoka participates in the State Dental Fluoridation program and adds fluoride to the treated water that Ferdinand purchases. A special testing for the gasoline additive MTBE was reported to be below the detection level. Samples are taken each month at sites throughout our system to test for any contaminants.

HEALTH INFORMATION 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. Drinking water, including bottled water, may reasonably be expected to contain at the 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.

The sources of drinking water (both tap

water and bottled water) include rivers, lakes, springs, ponds, reservoirs 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 and 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 runoff, and residential uses.

\*Pesticides and herbicides, which may come from a variety of sources such as agriculture, storm water runoff, and residential use.

\*Organic chemical contaminants, including synthetic and volatile organics, 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. Some people may be more vulnerable to contaminants in drinking water than the population. general Immunocompromised 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 risks of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at (800) 426-4791.

Note: Since 1983, Patoka Lake Regional Water & Sewer District has used chloramines to disinfect the drinking water supplies to Ferdinand and surrounding communities. For all normal users, chloraminated water is the same as water disinfected with chlorine. However, kidney dialysis patients and aquarium or fishpond owners need to take special precautions when using chloraminated water. Kidney dialysis patients should consult their doctors, and fish owners should call their pet store for more information.

## ADDRESSING LEAD IN DRINKING WATER

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. Ferdinand Water Department 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 http://www.epa.gov/safewater/lead.

WATER SOURCE In 2016 the sole source of the water distributed by the Ferdinand Water Department was surface water from the Patoka Reservoir. For more information about your drinking water, please call the Patoka Lake Regional Water & Sewer District at (812) 678-8300. You, as an end user and consumer of water, can help protect the sources of drinking water by increasing efforts to recycle materials and properly dispose of chemicals, used oils and petroleum products, batteries and other household refuse.

## 2016 MONITORING RESULTS FOR FERDINAND WATER DEPARTMENT

Date Units MRDL MRDLG MRAA

Constituents	Date	Units	MCL	MCLG	MRAA	Range	Violation	Major Sources
DISINFECTION PRO	OCES	S BY-	PRODU	JCTS				
Total Haloacetic Acids	2016	Ppb	60	NA	F-37.6	29 to 47	No	Disinfection process by-product
Total Trihalomethanes	2016	Ppb	80	NA	F-39.6	27.5 to 60.3	No	Disinfection process by-product
INORGANIC CONS	TITUE	NTS						
Fluoride	2016	Ppm	2.0	1.0	P-0.6		No	Water additive to promote strong teeth
Copper	2014	ug/L	1300AL		F-210	90th Percentile	No	Corrosion of household plumbing
Lead	2014	ug/L	15AL		F-4.8	90th Percentile	No	Corrosion of household plumbing
(For lead and copper th	e numl	per of s	amples	above A	L is 0).			
Sodium	2016	Ppm	None	None	P-2	NA	No	Erosion of natural deposits
Barium	2016	Ppm	2	2	P024	NA	No	Erosion of natural deposits
Gross Alpha	2014	Pci/I	15	0	P-1.5	NA	No	Runoff from herbicides used on row crops
Radium 226	2016	Pci/l		0	P-0.14	NA	No	Erosion of natural deposits
Radium 228	2016	Pci/l		0	P-0.83	NA	No	Erosion of natural deposits
Combined Radium	2016	Pci/I	5	0	P-0.97	NA	No	Erosion of natural deposits
Turbidity	Daily	NTU	TT03	3 NA	P-0.23	Highest Reading	g No	
Turbidity does not present	any risk	to your h	nealth. Tu	rbidity is a	a measure o	of suspended matte	r in water and	d is a good indication filtration system is functioning.

## **UNREGULATED CONTAMINANTS**

Total Organic Carbon Avg

Constituents

						•		-
Chloramine	Daily	Ppm	4.0	4.0	3.5	4.0 to 2.0	No	Added for disinfection
EPA is preparing a regu	,					Radon is a r	adioactive	e gas that occurs naturally in ground water and is releas

EPA is preparing a regulation, which will specify a MCL for Radon. Radon is a radioactive gas that occurs naturally in ground water and is released into the air during household use. At high exposure levels it can cause lung cancer. Radon was not detected in the treated finished water purchased from Patoka and distributed by Ferdinand.

Range Violation

Erosion of natural deposits

Maior Sources

**EPA-** Environmental Protection Agency

Pci/L- Picocurie per Liter

NA- Not Applicable

Ppm- Parts per Million, or Milligrams per Liter

EXPLANATION OF DATA TABLE This report is based upon tests performed by Patoka & Ferdinand's water systems. Terms used are defined below:

**IDEM-** Indiana Department of Environmental Management

**Ppb-** Parts per Billion or Micro grams per Liter

MRAA- Maximum Running Annual Average

NTU- Nephelometric Turbidity Units

**BLD-** Below Detectable Limits

MCL- Maximum Contaminant Level: The highest level of a contaminant that is allowed in drinking water as set by the EPA. The MCL's are set as low to the MCLG's 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 AL- Action Level: The concentration of a contaminant, which, if exceeded, trigger treatment or other requirements the water system must follow.

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