Jasper Municipal Utilities
Gas and Water

CITY OF JASPER INDIANA

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2013 ANNUAL WATER QUALITY REPORT

The following information, regarding your drinking water, is provided to you by the Jasper Water Utility. The information includes details about the quality of the water you drink and some of the health related factors we monitor on your behalf. During 2013, your water met EPA and state drinking water health standards.

Water Source and Treatment

The Jasper Water Utility water supply is drawn from the Patoka River

All water is chemically treated with DelPac 2020 and lime to aid in settling out particulate matter and then filtered. Chlorine is added to kill harmful bacteria. Fluoride is added to aid in dental health. Potassium permanganate and activated carbon are sometimes added in the treatment process to aid in improving taste.

Water Quality Protection and Testing

In compliance with State and Federal requirements all water is tested regularly to assure the quality for all consumers. The data included herein is a summary to provide you full information on the water you use.

Testing is done for the clarity of the water, known as "turbidity," potential contaminants in the Patoka River water brought in for treatment, and for compounds which could be created in treatment. Testing also is done in the distribution system and selected homes to assure that chlorine levels are kept up and that lead and copper levels are kept low for the consumer.

Chlorination to kill bacteria assures safe water. However, if some organics are present the chlorine can create new compounds known as trihalomethanes (TTHM's). To date treatment has been able to minimize the creation of TTHM'S as much as possible and there are no long term problems with TTHM's in your Jasper water.

Additional Health Information

The U. S. Environmental Protection Agency (E. P. A.) is charged with the responsibility of setting limits for contaminants in drinking water. The Indiana Department of Environmental Management, acting on behalf of the U. S. E. P. A., oversee's all public water supplies in the State of Indiana. Additional information about contaminants and potential health effects can be obtained from the Environmental Protection Agency's Safe Drinking Water Hot Line at 1-800-426-4791.

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 healthcare 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).

Cryptosporidium is defined as a protozoan parasite commonly found in surface waters. It can cause gastrointestinal problems including acute diarrhea, abdominal pain, vomiting, and fever. Healthy individuals are in minimal danger from these protozoa; however, it can be life threatening to people infected with HIV or AIDS. There currently is no standard set for these protozoa. The new treatment facilities include deep filtration to assure that problems with these protozoa are prevented. Improvements in the future may be implemented to help facilitate the treatment even further.

Lead and copper can be a concern, especially in older homes where either lead pipes or copper pipes with lead solder may be a source. Since lime is one of the chemicals used for treatment, most plumbing is coated with a protective layer of lime. This will prevent either lead or copper from going into the water. Testing has not shown this to be a problem in the Jasper system.

Jasper Water Utility

The Jasper Water Utility is managed by the Jasper Utility Service Board which meets at 7:00 P. M. on the third Monday of each month at City Hall. Additional information may be obtained by calling Mr. Ernie Hinkle, Water Manager at 812-482-5252

2013 Quality Violations: None

CONSUMER CONFIDENCE REPORT DATA

JASPER MUNICIPAL WATER UTILITY
JASPER, INDIANA

ANNUAL WATER QUALITY DATA 2013

PWSID# 5219009

INORGANIC CONTAMINANTS

	MCL MG/L	MCLG MG/L	TEST RESULTS MG/L	MAJOR SOURCES OF CONTAMINATION
Asbestos	7MFL	7MFL	0.040	DECAY OF ASBESTOS CEMENT WATER MAINS, EROSION OF NATURAL DEPOSITS
Barium	2.000	2	0.025	DISCHARGE OF DRILLING WASTES, METAL REFINERIES, & EROSION OF NATURAL DEPOSITS
Copper	1.300	1.3	0.084	HOUSEHOLD PLUMBING, NATURAL DEPOSITS, AND WOOD PRESERVATIVES
Cyanide(Free)	0.200	0.2	<0.020	STEEL, PLASTIC &FERTILIZER FACTORIES
Fluoride	4.000	4	0.800	NATURAL DEPOSITS, FERTILIZER AND ALUMINUM FACTORIES
Lead	0.015	0	0.010	HOUSEHOLD PLUMBING & NATURAL DEPOSITS
Nitrate	10.000	10	3.300	FERTILIZER RUNOFF, SEPTIC TANKS, SEWAGE, & NATURAL DEPOSITS
Nitrite	1.000	1	0.600	FERTILIZER RUNOFF, SEPTIC TANKS, SEWAGE, & NATURAL DEPOSITS
Sodium	no mcl		7.370	ROAD SALT, SEPTIC TANKS, SEWAGE, & NATURAL DEPOSITS
				METAL FINISHING INDUSTRIES & NATURAL DEPOSITS
Tested But Not Detected				
Thallium	0.002	0.0005	ND	LEACHING FROM ORE SITES, ELECTRONICS, GLASS, AND DRUG FACTORIES
Selenium	0.050	0.05	ND	PETROLEUM, & METAL REFINERIES, NATURAL DEPOSITS & MINES
Mercury	0.002	0.002	ND	NATURAL DEPOSITS, REFINERIES, FACTORIES, LANDFILLS & CROPLAND RUNOFF
Chromium	0.100	0.1	ND	STEEL & PULP MILLS, AND NATURAL DEPOSITS
Cadmium	0.005	.005	ND	CORROSION OF GALVANIZED PIPE, METAL REFINERIES, WASTE BATTERIES, PAINT &NATURAL DEPOSITS
Beryllium	0.004	.004	ND	METAL REFINERIES,COAL BURNING FACTORIES, ELECTRICAL, AEROSPACE AND DEFENSE INDUSTRIES
Arsenic	0.010	.01	ND	EROSION OF NATURAL DEPOSITS, RUNOFF FROM ORCHARDS,GLASS & ELECTRONICS PRODUCTION WASTE
Antimony	0.006	0.006	ND	PETROLEUM REFINERYS, FIRE RETARDANTS, CERAMICS, ELECTRONICS & SOLDER
Nickel	0.100		ND	

RADIOACTIVE CONTAMINANTS

	MCL pCi/l	Results pCi/l
Gross Beta	40.00	2.40
Gross Alpha	15.00	0.00
Radium 228	5.00	0.00
Uranium	0.03	0.0005mg/l

TEST RESULTS ARE GENERALLY IN MG/L IS MILLIGRAMS PER LITER WHICH IS THE SAME AS ONE POUND PER MILLION POUNDS OR ONE PENNY PER $10,000

< MEANS LESS THAN THE NUMBER SHOWN TO ITS RIGHT
> MEANS MORE THAN THE NUMBER SHOWN TO ITS RIGHT
≥ MEANS EQUAL TO OR MORE THAN THE NUMBER ON THE RIGHT

"MCL" MEANS MAXIMUM CONTAMINANT LEVEL
"MCLG" MEANS MAXIMUM CONTAMINANT LEVEL GOAL
"ND" MEANS NONE DETECTED
"Pci/L" MEANS PICO CURIES PER LITER
"NTU" MEANS NEPHELOMETRIC TURBIDITY UNITS
"MFL" MEANS MILLION FIBERS PER LITER
"PPM" MEANS PARTS PER MILLION
"UG/L" MEANS MICROGRAMS PER LITER
"MRDL" MEANS MAXIMUM RESIDUAL DISINFECTANT LEVEL
"MRDLG" MEANS MAXIMUM RESIDUAL DISINFECTANT LEVEL GOAL
"TT" IS AN ABREVIATION FOR TREATMENT TECHNIQUE WHERE A PROCESS MAY BE REQUIRED FOR A PARTICULAR CONTAMINANT COMTAMINANT A PARTICULAR
"Max.RAA" MEANS MAXIMUM RUNNING ANNUAL AVERAGE
"PPB" MEANS PARTS PER BILLION

SYNTHETIC ORGANIC CONTAMINANTS

	MCL UG/L	MCLG UG/L	TEST UG/L
2,4-D	70	70	<.1
2,4,5-TP	50	50	<.1
Acrylamide	TT	0	-
Alachlor	2	0	ND
Atrazine	3	3	0.50
Benzo(a)pyrene	0.2	0	ND
Carbofuran	40	40	<.9
Chlordane	2	0	<0.1
Dalapon	200	200	<1.0
Di(2-ethylhexyl) adipate	400	400	ND
Di(2-ethylhexyl) phthalate	6	0	ND
Dibromochloropropane	0.2	0	<0.01
Dinoseb	7	7	<0.1
Diquat	20	20	<.4
Dioxin	3.0e-5	0	ND
Endothall	100	100	<9.0
Endrin	2	2	<0.01
Epichlorohydrin	TT	0	-
Ethylene dibromide	0.05	0	<0.01
Glyphosate	700	700	<6.0
Heptachlor	0.4	0	<0.04
Hepticlor epoxide	0.2	0	<0.02
Hexachlorobenzene	1	0	<0.1
Hexachlorocyclopentadiene	50	50	ND
Lindane	0.2	0.2	<0.02
Methoxychlor	40	40	ND
Oxamyl	200	200	<1.0
PCBs	0.5	0	<.5
Pentachlorophenol	1	0	<0.04
Picloram	500	500	<.1
Simazine	4	4	ND
Toxaphene	3	0	<1

DISINFECTANT

MRDL MG/L	MRDLG MG/L	TEST RESULTS MG/L		SOURCE DISINFECTANT USED
4	4	Max.	2.05	CHLORINE
		Min.	.40	
		Max.RAA	1.07	

TOTAL ORGANIC CARBON

MCL	MCLG	AVERAGE	SOURCE
1.00	≥1.000	1.28	Naturally present

TOC levels should be 1.0 or greater on a yearly average

VOLATILE ORGANIC CONTAMINANTS

	MCL MG/L	TEST MG/L	SOURCES
Benzene	0.005	ND	FACTORIES, GAS STORAGE & LANDFILLS
Carbon tetrachloride	0.005	ND	CHEMICAL INDUSTRIES
Chlorobenzene	0.100	ND	AGRICULTUREAL & CHEMICAL FACTORIES
o-Dichlorobenzene	0.600	ND	CHEMICAL INDUSTRIES
p-Dichlorobenzene	0.075	ND	CHEMICAL INDUSTRIES
1,2-Dichloroethane	0.005	ND	CHEMICAL INDUSTRIES
1,1-Dichloroethylene	0.007	ND	CHEMICAL INDUSTRIES
cis-1,2-Dichloroethylene	0.070	ND	CHEMICAL INDUSTRIES
trans-1,2-Dichloroethylene	0.100	ND	CHEMICAL INDUSTRIES
Dichloromethane	0.005	ND	PHARMACEUTICAL & CHEMICAL FACTORIES
1,2- Dichloropropane	0.005	ND	CHEMICAL INDUSTRIES
Ethhylbenzene	0.700	ND	PETROLEUM REFINERIES
Styrene	0.100	ND	RUBBER & PLASTIC FACTORIES
Tetrachloroethylene	0.005	ND	DRY CLEANING & LEACHING FROM PVC
1,2,4-Trichlorobenzene	0.070	ND	TEXTILE FINISHING FACTORIES
1,1,1-Trichloroethane	0.200	ND	METAL DEGREASING
1,1,2-Trichloroethane	0.005	ND	CHEMICAL INDUSTIRES
Trichloroethylene	0.005	ND	METAL DEGREASING
TTHMs	0.080	0.057	WATER TREATMENT BYPRODUCT
Toluene	1.000	ND	PETROLEUM FACTORIES
Vinyl Chloride	0.002	ND	PLASTIC FACTORIES
Xylenes	10.000	ND	PETROLEUM & CHEMICAL FACTORIES
HAA5	0.060	0.034	WATER TREATMENT BYPRODUCT

CLARITY

	MCL	TEST RESULTS
TURBIDITY (NTU) -AVERAGE	0.3	0.08
MAXIMUM		0.15
MINIMUM		0.05
PERCENTAGE MEETING MCL		100.00%

LT2 BIN CONCENTRATION CALCULATION FOR CRYPTOSPORIDIUM

24 MONTH LOW	.000	OOCYST/L
24 MONTH HIGH	.526	OOCYST/L
24 MONTH AVERAGE	.085	OOCYST/L

MICROBIOLOGICAL TESTS (PERCENT POSITIVE)

	MCL	POSITIVE TESTS	SOURCE
COLIFORM	5.00%	0.00%	NATURALLY PRESENT

VIOLATIONS OF MCL 2013 NONE