



We are pleased to report that our drinking water meets all federal and state requirements.

We're pleased to present to you this year's Annual Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our water source is ground water from four wells. The wells draw from the Floridan Aquifer. Because of the excellent quality of our water, the only treatment required is chlorine for disinfection purposes.

In 2011 the Department of Environmental Protection performed a Source Water Assessment on our system. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of our wells. There are three potential sources of contamination identified for this system with moderate susceptibility levels. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/swapp or they can be obtained from City Hall at 465 Valparaiso Parkway.

If you have any questions about this report or concerning your water utility, please contact **Public Works Director, James Valandingham at 850-729-5407 or via email at vpw@valp.org.** We encourage our valued customers to be informed about their water utility. Information including this report is available on our web site **vpw.valp.org**. If you want to learn more, please attend any of our regularly scheduled meetings. They are held the second Monday of every month at 6 pm in the Commission Chambers 465 Valparaiso Parkway.

The City of Valparaiso Water System routinely monitors for contaminants in your drinking water according to Federal and State laws, rules, and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2011. Data obtained before January 1, 2011, and presented in this report are from the most recent testing done in accordance with the laws, rules, and regulations.

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 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.

In the table below, you may find unfamiliar terms and abbreviations. To help you better understand these terms we've provided the following definitions: **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.

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow. Initial Distribution System Evaluation (IDSE): An important part of the Stage 2 Disinfection Byproducts Rule (DBPR). The IDSE is a one-time study conducted by water systems to identify distribution system locations with high concentrations of trihalomethanes (THMs) and haloacetic acids (HAAs). Water systems will use results from the IDSE, in conjunction with their Stage 1 DBPR compliance monitoring data, to select compliance monitoring locations for the Stage 2 DBPR. 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.

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.

"ND" means not detected and indicates that the substance was not found by laboratory analysis.

Parts per billion (ppb) or Micrograms per liter (µg/l): one part by weight of analyte to 1 billion parts by weight of the water sample.

Parts per million (ppm) or Milligrams per liter (mg/l): one part by weight of analyte to 1 million parts by weight of the water sample.

Picocurie per liter (pCi/L): measure of the radioactivity in water.

2011 CONTAMINANTS TABLE										
Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination			
Radioactive Contaminants										
Radium 226 + 228 or combined radium (pCi/L)	Sep-11	Ν	0.4	ND - 0.4	0	5	Erosion of natural deposits			
Inorganic Contaminants										
Barium (ppm)	Sep-11	Ν	0.012	0.01-0.012	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits			
Fluoride (ppm)	Sep-11	N	0.19	0.13–0.19	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.3 ppm			
Sodium (ppm)	Sep-11	Ν	10	5.8-10	N/A	160	Salt water intrusion, leaching from soil			

Contaminant and Unit of Measurement	Dates of s (mo.		s of sa (mo./y	1 0		ACL plation Y/N]	Level Detected		Range of Results		MCLG	MCL	Likely Source of Contamination	
Volatile Organi	ic C	onta	imi	nant	S										
Carbon tetrachloride (ppb)		Sep & Dec-11		Ν			0.68	ND – 0.68		0		3	Discharge from chemical plants and other industrial activities		
Disinfectant or Contaminant and Unit of Measurement		Date samp (mo./	ling	MRI Violat	MCL or MRDL Leve Violation Detecto Y/N		-	Range of Results		MCLG or MRDLG		MCL or MRDL	Likely Source of Contamination		
Stage 1 Disinfectants and I	Disinfe	ection B	y-Pro	ducts											
Chlorine (ppm)		Jan-Dec 2011		Ν		0.63		0.45-0.77	Μ	4	MRDL = 4.0		Wate	Water additive used to control microbes	
Haloacetic Acids (five) (HA (ppb)	A5)	Sep-11		Ν	6.7			3.7-9		NA	MCL = 60			By-product of drinking water disinfection	
TTHM [Total trihalomethan (ppb)	nes] Se		-11	1 N		4		2.7-4.7		NA	MCL = 80			By-product of drinking water disinfection	
Contaminant and Unit of Measurement	sam	tes of pling 0./yr.)	Exc	L eeded /N	901 Perce Res	entile		o. of samplin tes exceedin the AL	0			AL (Action Level)		Likely Source of Contamination	
Lead and Copper (Tap Wa	ater)														
Copper (tap water) (ppm)		-Sept)11	ot N		0.1	0.17		0 of 20		1.3	1.3		sys	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives	
Lead (tap water) (ppb)		-Sept)11]	N		3	0 of 20			0		15		Corrosion of household plumbing systems, erosion of natural deposits	

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. Valparaiso Water 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.

Contaminants that may be present in source water include:

- (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- (B) 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.
- (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- (D) 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.
- (E) 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, the EPA prescribes regulations, which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (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. 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 microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

We at the City of Valparaiso would like you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to insuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call any of the numbers listed.