2012 Annual Drinking Water Quality Report **Goodland Water District**

(ppb)											
TTHM (Total Trihalomethanes) (ppb)	2/12 5/12 8/12 11/12	N	32.02	10.9- 41.0	N/A	MCL= 80	By-prod	oduct of drinking water chlorination			
The monthly TOC removal ratio is the ratio between the actual TOC removal and the TOC rule removal requirements.											
Contaminant and Unit of Measurement	Dates of sampling (mo/yr)	TT Violation Y/N	Annua Averag Monthl Remova Ratio	e y	Range of Monthly Removal Ratios	MCL G	MCL	Likely Source of Contamination			
Total organic carbon (ppm)	1/12 - 12/12	Ν	Less tha 2.0	n	N/A	N/A	TT	Naturally present in the environment			

Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL Violation Y/N	Highest Monthly Percentage of Positive Samples	MCLG	MCL	Likely Source of Contamination	
Total Coliform Bacteria (positive samples)	1/12 to 12/12	N	2.3%	0	For systems collecting at least 40 samples per month: presence of coliform bacteria in 5% or more of monthly samples.	Naturally present in the environment	

Lead and Copper	(Tap Wate	r)					
Contaminant and	Dates of	AL	90 th	No. of sampling		AL	
unit of	sampling	Violatio	Percentil	sites exceeding	MCLG	(Action	Likely Source of Contamination
measurement	(mo/yr)	n Y/N	e Result	the AL		Level)	
Copper (tap water) (ppm)	8/12 9/12	Ν	0.057	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead(tap water) (ppb)	8/12 9/12	Ν	0.68	0	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. The Collier County 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 (800-426-4791) or at www.epa.gov/safewater/lead.

Some people may be more vulnerable to contaminants in drinking water than the general population. 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 and Center for Disease Control (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 at (800) 426-4791.

The Collier County Water Department team members 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 ensuring the excellent quality of your water. If you have any questions or concerns about the information that we have provided, please contact the Collier County Water Department Laboratory staff at (239) 252-4159. You can also visit the Collier County Water Department web site at:

www.colliergov.net/water

Other sources of information include:

Florida Department of Environmental Protection web site at www.dep.state.fl.us/water United States Environmental Protection Agency Safe Drinking Water Hotline at 1-800-426-4791 US EPA Office of Water web site at www.epa.gov/safewater The American Water Works Association web site at www.awwa.org



We are pleased to present the 2012 Annual Drinking Water Quality Report. This report is designed to inform you about the quality of water that we deliver to you - every day. Our goal is to provide a safe, dependable supply of drinking water to you, our customer.

In order to ensure that your drinking water is safe to drink, the United States Environmental Protection Agency (USEPA) prescribes specific limits for the amount of certain contaminants which drinking water may contain. All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of these small amounts of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and their potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline at 1-800-426-4791.

The Collier County Water Department has an extensive and continuous testing program to routinely monitor for contaminants in your drinking water in accordance with 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, 2012 to December 31, 2012. Data obtained before January 1, 2012, and presented in this report are from the most recent testing done in accordance with the laws, rules, and regulations. The Florida Department of Environmental Protection (FDEP) has performed a Source Water Assessment on our system. This assessment was conducted to provide information about any potential sources of contamination in the vicinity of the wells and surface water intakes that are the source of the water that is treated for your consumption. Potential sources of contamination identified include underground petroleum storage tank and dry cleaning facilities. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/swapp.

The Collier County Water Department services Goodland by redistributing water received from Marco Island Utilities. Marco Island Utilities obtains its water from two sources; surface water from the Marco Lakes on the mainland and groundwater from the Floridian Aquifer. The water is treated through a complex multi-step water treatment process that includes enhanced lime softening, filtration, and reverse osmosis, chlorination and corrosion inhibition. To provide additional water during the dry winter months, Marco Island Utilities also utilizes an underground water storage system known as Aquifer Storage and Recovery (ASR) wells. The portion of water received and redistributed by Collier County for use by the Goodland Water District is treated with additional disinfectant.



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In this report 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:

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.

Non-Detects (ND) - "ND" means not detected and indicates that the substance was not found by laboratory analysis.

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, which corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter (\mu g/L) – one part by weight of analyte to 1 billion parts by weight of the water sample, which corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Picocuries per liter (pCi/L) - measure of the radioactivity in water.

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

"*N/A*": means not applicable.

Nephelometric Turbidity Unit (NTU) – nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

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

Turbidity – Turbidity is a measure of the cloudiness of the water. Since the lime plant source water is surface water, we measure turbidity to comply with the surface water treatment requirements. Turbidity is also an indicator of filtration effectiveness. High turbidity can hinder the effectiveness of disinfectants.

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. MCLs 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.

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.

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, as in the case with the Collier County Water Supply, 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.

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, EPA prescribes regulations that 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.

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This report shows	the results	of our	monitor	ring f	d Water Qu for the period	d of Janu	ary 1 st to I	December	31 st 2012.	Federal an	nd state regulations allow us o not change frequently.
	though rep	resent	ative, m	ay be	more than	one year	old. The E	PA require	es monitor	ring of ove	er 80 drinking water
Note: The result in reported in the Mo				entag	ge column is	s the lowe	est monthly	y percentag	ge of samp	oles meetin	ng the turbidity limits
Contaminant and Unit of Measurement	Dates of samplin g (mo./yr.)	M Vic	ICL Datio Y/N		ne Highest Single asurement	Perc	e Lowest N centage of ceting Reg Limits	Samples ulatory	MCL G	Likely Source of Contamination	
Turbidity (NTU)	1/12- 12/12		N		0.34		100%		N/A TT Soil runoff		
Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. High turbidity can hinder the effectiveness of disinfectants.											ctiveness of our filtration
Radiological Con	taminants				1	n	1				
Contaminant and unit of measurement	d Date samp (mo/	ling	MCI Violat Y/N	ion	Level Detecte d	Range of Result s	MCL G	MCL	Likely Source of Contamination		
Radium 226 or combined radiun (pCi/l)	n 1/12 12/		N		1.4	0.0-1.4	0	5	Erosion of natural deposits		
Alpha Emitters (pCi/l)	1/12 12/		Ν		4.9	0.0-4.9	0	15	Erosion of natural deposits		
Inorganic Conta	minants										
Contaminant and unit of measurement		ling	MC Violat Y/N	ion	Level Detecte d	Range of Result s	MCL G	MCL	L	ikely Sou	rce of Contamination
Arsenic (ppb)	1/12 12/		N		1.7	0-1.7	0	10	Erosion of natural deposits, runoff from orchards, runoff from glass and electronics production wastes		
Barium (ppm)	3/1	2	N		0.011	NA	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits		
Chromium (ppb)) 3/1	2	N		0.52	NA	100	100	Discharge from steel and pulp mills; erosion of natural deposits		
Lead (ppb)	3/1	2	Ν		1.3	NA	0	15			ll deposits; discharge from d aluminum factories
Nitrate (as Nitrogen) (ppm)	3/12 10/		N		0.13	0.05- 0.13	10	10	Runoff from fertilizer use; leaching from sept tanks, sewage; erosion of natural deposits		
Selenium (ppb)	3/1		N		5.8	NA	50	50	Discharge from petroleum and metal refinerie erosion of natural deposits; discharge from mines		
Sodium (ppm)	3/1	2	N		71	NA	NA	160	Salt water intrusion, leaching from soil		
TTHMs and Stag	e 1 Disinf	ectant	/Disinfe	ction	By-Produ	ct (D/DR	P) Param	eters			
Contaminant and			MC		Level	Rang	MCLG	MCL	Ι	Likely Sou	rce of Contamination
unit of measurement	samp (mo		Viola Y/I		Detecte d	e of Resul ts	or MRDL G	or MRD L		-	
Chloramines (ppn	ð/12	11/12	N		3.3	2.2- 3.9	MRDL G=4	MRDL=	Wate	er additive	used to control microbes
Haloacetic Acids (five) (HAA5)	s 2/12 8/12		N		21.93	14.9- 40.2	N/A	MCL=60	By-pr	oduct of c	lrinking water disinfection