Castroville Community Services District

2012

Annual Water Quality
Report



We test the drinking water quality for many constituents as required by State and Federal Regulations. This report shows the results of our monitoring for the period of January 1 - December 31, 2012.

Este informe contiene información muy importante sobre su agua de beber. Tradúzcalo ó hable con alguien que lo entienda bien.

WATER QUALITY REPORT

We're pleased to present to you this year's Annual Water Quality Report. This report is designed to inform you about the quality of 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 source water comes from 3 wells providing ground water from the 400 foot aquifer.

 A source water assessment was conducted for the CCSD System in December 2001 and can be viewed at the District Office

To learn more, we invite you to attend any of our regular scheduled Board meetings, held on the third Tuesday of each month at 4:00 pm at the District office.

CONTAMINANTS IN DRINKING WATER

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 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 microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

INFORMATION

All 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.

Contaminants that may be present in source water before we treat it include:

- Microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, that can be naturally-occurring or result from urban storm water 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, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, that are byproducts 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 naturallyoccurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, USEPA and the California Department of Health Services (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.

WATER QUALITY DATA

according to Federal and State laws. This table shows the results of our monitoring for the period of detection are listed below. All detections were below regulatory actions levels. January 1st to December 31st, 2012. We sample for over 108 contaminants but only those that show any $igcup_{astroville}$ Community Services District routinely monitors for contaminants in your drinking water

(MCLG) Typical Source of Contaminant none Generally found in ground and surface water Typical Source of Contaminant Fertilizer use: leaching from septic tanks, sewage: erosion of natural deposits N/A/(N/A) Erosion of natural deposits N/A(N/A) Erosion of natural deposits N/A(N/A) Erosion of natural deposits N/A(N/A) NAG(N/A) Naturally occurring organic materials N/A/(N/A) Runoff/leaching from natural deposits; industrial wastes N/A/(N/A) Runoff/leaching from natural deposits industrial wastes N/A(N/A) Naturally occurring organic materials N/A(N/A) NAG(N/A) Runoff/leaching N/A(N/A) Naturally occurring organic materials N/A(N/A) Naturally occurring organic materials N/A(N/A) NAG(N/A) Naturally occurring organic materials N/A(N/A) NAG(N/A) Naturally occurring organic materials	51	ND18	.09	July 2010	ומוטומווץ (ועוט)
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MCLG) Typical Source of Contaminant none Generally found in ground and surface water none Generally found in ground and surface water none Generally found in ground and surface water Typical Source of Contaminant Fertilizer use: leaching from septic tanks, sewage: arosion of natural deposits N/A/(N/A) Erosion of natural deposits N/A (N/A) N/A (N/A) Auturally occurring organic materials N/A(N/A) Runoff/leaching from natural deposits: seawater influence	ω	ND-75	30	July 2010	Iron, (ppb)
(MCLG) Typical Source of Contaminant none Generally found in ground and surface water none Generally found in ground and surface water none Generally found in ground and surface water rinking Water Standard PHG/ (MCLG) Typical Source of Contaminant 45/(N/A) Fertilizer use: leaching from septic tanks, sewage: erosion of natural deposits N/A/(N/A) Erosion of natural deposits N/A (N/A) N/A (N/A)	250 N	74-399	200	Aug 2012	Chloride, (ppm)
(MCLG) Typical Source of Contaminant none Generally found in ground and surface water none Generally found in ground and surface water none HHGI (MCLG) Typical Source of Contaminant Fertilizer use: leaching from septic tanks, sewage: erosion of natural deposits N/A/(N/A) Erosion of natural deposits N/A (N/A) Erosion of natural deposits	15	NB	NB	July 2010	Color, units
PHG/ (MCLG) Typical Source of Contaminant none Generally found in ground and surface water none Generally found in ground and surface water none Generally found in ground and surface water pHG/ Typical Source of Contaminant Fertilizer use: leaching from septic tanks, sewage: erosion of natural deposits N/A/(N/A) N/A/(N/A) Erosion of natural deposits, surface water treatment N/A (N/A) N/A (N/A) Erosion of natural deposits N/A (N/A) Erosion of natural deposits N/A (N/A) Erosion of natural deposits		Range of Detections	Detected	Sample Date	(and reporting units)
(MCLG) none Generally found in ground and surface water Typical Source of Contaminant PHG/ (MCLG) Typical Source of Contaminant Fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits N/A/(N/A) Erosion of natural deposits N/A (N/A) Erosion of natural deposits N/A (N/A) Erosion of natural deposits N/A (N/A) Erosion of natural deposits			Average Level		Chemical or Constituent
MCLG) Typical Source of Contaminant none Generally found in ground and surface water none Generally found in ground and surface water rinking Water Standard PHG/ (MCLG) Typical Source of Contaminant Fertilizer use: leaching from septic tanks, sewage: erosion of natural deposits N/A/(N/A) Erosion of natural deposits, surface water treatment N/A (N/A) Erosion of natural deposits N/A (N/A) Erosion of natural deposits	condary Dri	Table 5 - detection of contaminants with a Secondary Drinking Water Standard	5 - detecti	Table	
PHG/ (MCLG) Typical Source of Contaminant none Generally found in ground and surface water none Generally found in ground and surface water rinking Water Standard PHG/ (MCLG) Typical Source of Contaminant Fertilizer use: leaching from septic tanks, sewage: erosion of natural deposits N/A/(N/A) Erosion of natural deposits N/A(N/A) Erosion of natural deposits, surface water treatment N/A (N/A) Erosion of natural deposits	2.0	.1922	.21	July 2010	Fluoride (ppm)
PHG/ (MCLG) Typical Source of Contaminant none Generally found in ground and surface water none Generally found in ground and surface water rinking Water Standard PHG/ (MCLG) Typical Source of Contaminant Fertilizer use: leaching from septic tanks, sewage: erosion of natural deposits N/A/(N/A) Erosion of natural deposits, surface water treatment	10	3-4	3.3	July 2010	Arsenic (ug/L)
PHG/ (MCLG) Typical Source of Contaminant none Generally found in ground and surface water none Generally found in ground and surface water rinking Water Standard PHG/ (MCLG) Typical Source of Contaminant Fertilizer use: leaching from septic tanks, sewage: erosion of natural deposits N/A/(N/A) Erosion of natural deposits	1000 N	ND	NB	July 2010	Aluminum, (ug/L)
MCLG) Typical Source of Contaminant none Generally found in ground and surface water none Generally found in ground and surface water rinking Water Standard PHGI (MCLG) Typical Source of Contaminant Fertilizer use: leaching from septic tanks, sewage: erosion of natural deposits	N Z	0,000-0.577	0.54	Aug 2006	Gross Alpha, (pCi/L)
PHG/ (MCLG) Typical Source of Contaminant none Generally found in ground and surface water none None Typical Source of Contaminant (MCLG) Typical Source of Contaminant	45	0-3	2	Aug 2012	Nitrate (as NO3) , (ppm)
PHG/ (MCLG) Typical Source of Contaminant none Generally found in ground and surface water none Generally found in ground and surface water rinking Water Standard	MCL	Range of Detections	Average Level Detected	Sample Date	Chemical or Constituent (and reporting units)
	rimary Drin	Table 4 - detection of contaminants with a Primary Drinking Water Standard	- detection	Table 4	
	none	185-496	292	July 2010	Hardness (ppm)
	none	57-150	100	Aug 2012	Sodium (ppm)
	MCL	Range of Detections	Level Detected	Sample Date	Chemical or Constituent (and reporting units)
e nui eness	Salaw and	3 - sampling results for social and maraness	Average		
100	-52		0.300	20	copper (ppo)
Corrosion of household plumbing; erosion of natural	2)	0000	30	
Corrosion of household plumbing; industrial manufacturers; erosion of natural deposits.	15	0	NB	20	Lead (ppb)
MCLG Typical Source of Contaminant	AL	No. Sites exceeding AL	90th percentile	No. of samples collected	Lead and Copper
of Lead and copper	etection of	Table 2 - sampling results showing the detection of Lead	ole 2 - sam	Tal	
O Human and animal fecal waste	nple sample <i>coli</i>	A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or <i>E. coli</i>	0	(In the year) 0	Fecal Coliform or E. coli
O Naturally present in the environment	th a	More than 1 sample in a month with a detection	0	0	Total Coliform Bacteria
MCL6 Typical Source of Bacteria		MCL	No. of months in violation	Highest No. of detections	Microbiological Contaminants
bacteria	coliform b	Table 1 - sampling results showing the detection of coliform bacteria	pling result	Table 1 - san	

Contact Eric Tynan, General Manager at (831) 633-2560

USEFUL TERMS & DEFINITIONS

abbreviations you might not be familiar with. To help you better understand these In this table you will find many terms and tions: terms we've provided the following defini-

- Non-Detects (ND) laboratory analysis indicates that the constituent is not
- Parts per million (ppm) or Milligrams per single penny in \$10,000 sponds to one minute in two years or a liter (mg/l) - one part per million corre-
- Parts per billion (ppb) or Micrograms a single penny in \$10,000,000. sponds to one minute in 2,000 years, or per liter - one part per billion corre-
- Parts per trillion (ppt) or Nanograms *per liter (nanograms/l)* - one part per 2,000,000 years, or a single penny in trillion corresponds to one minute in \$10,000,000,000
- grams per liter (picograms/l) one Parts per quadrillion (ppq) or Picopart per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.
- Picocuries per liter (pCi/L) pico curies per liter is a measure of the radioactivity in water.
- Millirems per year (mrem/yr) measure of radiation absorbed by the body

- Nephelometric Turbidity Unit Million Fibers per Liter (MFL) than 10 micrometers. asbestos fibers that are longer measure of the presence of million fibers per liter is a

water. Turbidity in excess of 5 is a measure of the clarity of (NTU) nephelometric turbidity unit

NTU's is just noticeable to the

average person.

- Regulatory Action Level (AL) the other requirements which a water if exceeded, triggers treatment or concentration of a contaminant which system must follow.
- a contaminant in drinking water. Treatment Technique (TT) - A process intended to reduce the level of treatment technique is a required
- Maximum Contaminant Level The allowed in drinking water. MCL's are set the best available treatment technology as close to the MCLG's as feasible using highest level of a contaminant that is "Maximum Allowed" (MCL) is the
- Maximum Contaminant Level Goal The contaminant in drinking water below which health. MCLG's allow for a margin of "Goal" (MCLG) is the level of a there is no known or expected risk to
- Public Health Goal (PHG) The level of a Environmental Protection Agency. there is no known or expected risk to contaminant in drinking water below which health. PHG's are set by the California