



ANNUAL WATER QUALITY REPORT 2009

REPORTE DE SISTEMA DE AGUA- 2009

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

Dear Gonzales Resident:

The City of Gonzales is committed to providing a safe, reliable supply of excellent quality drinking water that meets Federal and State regulations. This brochure is a snapshot of the quality of water that we provided in 2009. Included are the details about where your water comes from, what it contains and how it compares to State standards. We are committed to providing you with information because informed customers are the best allies. The City encourages public interest and participation in decisions affecting the community's drinking water supply. Our City Council meets at 6:00 P.M. on the first and third Monday of each month at 147 4th Street in the city council chambers. The City of Gonzales will take any steps necessary to ensure that your water will continue to meet safe drinking water standards.

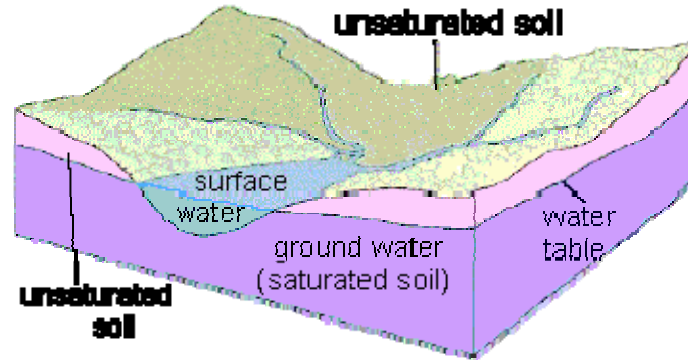
Sincerely,
René L. Mendez
City Manager

The California Department of Public Health (CDPH), Drinking Water Field Operations Branch, requires water agencies to annually notify their customers of the constituents or elements in their drinking water. This is not the result of punitive action, nor is it indicative of any violation of treatment practices. It is strictly a mandated public information service legislated to keep you informed each year of the facts about your drinking water.

Water System

The City of Gonzales derives its municipal water supply from groundwater sources within the Salinas Valley groundwater basin. About

530,000 acre-feet of water per year are pumped from the Salinas Valley groundwater basin, 95% of which is used for irrigated agriculture. The remaining 5% are used for municipal and industrial purposes, serving a population of approximately 150,000 people. The city currently operates 4 deep-water wells located throughout the city. *In 2009, these 4 wells supplied 1,412 acre-feet or 460 million gallons of water for Gonzales' 9,025 residents.* After the water comes out of these wells, we treat it with chlorine for disinfection to protect against microbial contaminants



System Improvement

The City is exploring the possibility of acquiring a SCADA System (Supervisory Control and Data Acquisition) to address and improve our system controls and help lower overhead cost.

Water Quality - A National Priority



The safety of public water supplies has received much attention in recent years. The City of Gonzales customers should know that our water supply is safe and meets all drinking water standards. 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.

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 the 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).

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

Microbial contaminants, such as viruses and bacteria, which may come from sewage 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 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 agricultural 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 station, urban runoff, and septic systems.

Radioactive contaminants, which are naturally occurring.

California drinking water regulations require that water delivered by public water systems be, at all times, pure, wholesome and potable, as required by the federal and state Safe Drinking Water Acts. To accomplish this mandate, domestic water must meet strict standards, as provided in the California Domestic Water Quality and Monitoring Regulations.

This regulation includes primary and secondary maximum contaminant levels (MCL) and monitoring frequencies for specified microbiological, chemical and radionuclide contaminants. Primary contaminants are those, which may have an adverse health effect. Secondary contaminants are those, which may adversely affect the aesthetic quality of the drinking water. The regulation includes the provisions adopted by the federal Safe Drinking Water Act of 1974. The state has direct enforcement responsibility for all public water systems with 200 or more service connections.

The Environmental Protection Agency (EPA) establishes monitoring requirements and maximum contaminant levels. As the EPA develops new standards, California will amend state regulations, which establish water quality requirements for local water supplies. The domestic water supplied by the City of Gonzales meets all current regulations. This report includes the respective public health goal (PHG), or the federal maximum contaminant level goal (MCLG) for chemicals that do not yet have a PHG.

Water Quality Data

The following table lists all the drinking water contaminants that we detected during the 2009 calendar year. In order to ensure that tap water is safe to drink, the California Department of Health Services prescribes regulations, which limit the amount of certain contaminants in water provided by public water systems. We treat our water according to the Departments regulations. The Department's Food and Drug Branch regulations establish limits for contaminants in bottled water, which must provide the same protection for the public. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done January 1-December 31, 2009. The State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than a year old.

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SUMMARY OF WATER QUALITY DATA FOR THE YEAR 2009

PRIMARY STANDARDS – MANDATED HEALTH RELATED STANDARDS							
Contaminant	Violation Y/N	Level Detected			MCL	PHG	Likely Source of Contamination
Microbiological Contaminants							
Total Coliform Bacteria	N	1			1/month	0	Naturally Present in the Environment
Fecal Coliform and Ecoli	N	0			0	0	Human and animal fecal waste
Contaminant	Violation Y/N	Ave Level Detected*	Result Range	Units	MCL	PHG	Likely Source of Contamination
Radioactive Contaminants							
Gross Alpha Activity ^	N	2.05	1.5 - 2.8	pCi/L	15	N/A	Erosion of natural deposits
Inorganic Contaminants							
Asbestos^	N	<0.20	<0.20	MFL	7	7	Internal corrosion of asbestos cement water mains; erosion of natural deposits
Fluoride	N	0.20	0.14 - 0.26	ppm	2.0	1.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories
Nitrate (as N03)**	N	9.2	2 - 16	ppm	45	45	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
SECONDARY STANDARDS- AESTHETIC STANDARDS							
Color	N	3	<2 - 3	Units	15	N/A	Naturally-occurring organic materials
Corrosivity	N	0.45	0.20 - 0.62	Non-corrosive	Non-corrosive	N/A	Natural or industrially influenced balance of hydrogen, carbon and oxygen in the water; affected by the temperature and other factors.
Foaming Agents (MBAS)	N	ND	ND	ppb	500	N/A	Municipal and industrial waste discharges
MTBE	N	ND	ND	ppb	13	13	Leakage from underground gasoline storage tanks and pipelines; discharge from petroleum and chemical factories.
Odor—Threshold	N	1	1	TON	3	N/A	Naturally-occurring organic materials
Turbidity	N	0.36	0.05 - 0.55	NTU	5	N/A	Soil runoff
Total Dissolved Solids	N	364	308 - 464	ppm	1,000	N/A	Runoff/ leaching from natural deposits; seawater influence
Specific Conductance	N	526	421 - 720	umho/cm	1,600	N/A	Substances that form natural deposits; sea water influence
Chloride	N	31	14 - 62	ppm	500	N/A	Runoff/leaching from natural deposits; sea water influence
Sulfate	N	82	70 - 100	ppm	500	N/A	Runoff/leaching from natural deposits; industrial wastes
Other Constituents							
Sodium	N	36	23 - 70	ppm	N/A	N/A	Generally found in ground and surface water; seawater influence
Hardness	N	198	180 - 217	ppm	N/A	N/A	Generally found in ground and surface water. Divide these numbers by 17.1 to get grains/gallon.
pH	N	7.5	7.3 - 7.7	Units	N/A	N/A	Inherent characteristic of water.
DISINFECTION BYPRODUCTS AND DISINFECTANT RESIDUALS							
TTHMs – Total Trihalomethanes	N	0.85	ND - 0.85	ppb	80	N/A	By-product of drinking water chlorination
Haloacetic Acids	N	ND	ND	ppb	60	N/A	Byproduct of drinking water disinfection
Residual Chlorine	N	0.20	ND - 0.48	ppm	MRDL 4 as Cl ₂	MRDLG 4 as Cl ₂	Drinking water disinfectant added for treatment
LEAD AND COPPER***	# Of Samples Collected	90 th Percentile Level	# Of Sites Exceeding AL	Units	Action Level (AL)	PHG	Typical Source of Contaminant
Lead	22	1.7	0	ppb	15	2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper	22	62	0	ppb	1300	170	Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives

* Wells 3,4 & 5 tested in 2008, Well 6 in 2009. **Nitrates tested annually. ***Lead & Copper in the distribution system monitored in 2007. ^ Analysis done in 2006

Key To Table		
N/A: Not Applicable	NTU: Nephelometric Turbidity Units	MCL: Maximum Contaminant Level
ND: Not Detectable at testing limit	pCi/l: Pico curies per liter (a measure of radiation)	PHG: Public Health Goal
ppb: parts per billion or micrograms per liter	TON: Threshold Odor Number	MRDL(G): Maximum Residual Disinfectant Level (Goal)
ppm: parts per million or milligrams per liter	MFL: Million Fibers per Liter, with a fiber length greater than 10 micrometers	

Additional information about the content of this report (and additional copies) can be obtained by calling Gonzales City Hall at (831) 675-5000.

Definitions

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. **Primary MCLs** are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. **Secondary MCLs** are set to protect the odor, taste, and appearance of drinking water.

Public Health Goal (PHG) and **Maximum Contaminant Level Goal (MCLG):** are the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the USEPA. PHGs are set by Cal EPA.

Maximum residual disinfectant level (MRDL): The level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap. MRDLs are set by the USEPA.

Maximum residual disinfectant level goal (MRDLG): The level of a disinfectant added for water treatment below which there is no known or expected risk to health.

Action Level (AL): The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow. MCLs and ALs are set by DHS.