



ANNUAL WATER QUALITY REPORT 2016

REPORTE DE SISTEMA DE AGUA— 2016

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 2016. 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 117 Fourth 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.

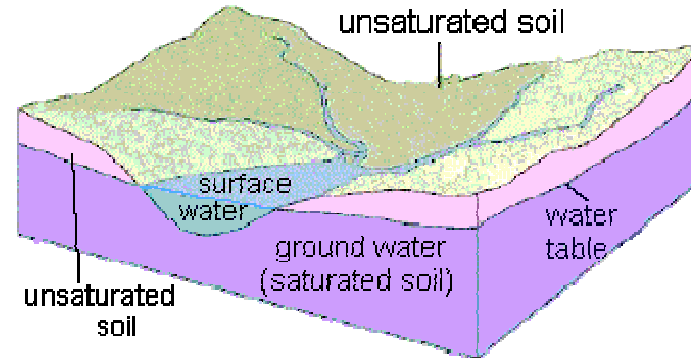
Sincerely,
René L. Mendez
City Manager

The California State Water Resources Control Board, Division of Drinking Water, 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 water supply from ground-water sources within the Salinas Valley groundwater basin. About 520,000 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 2016, these 4 wells supplied 1421 acre-feet or 463 million gallons of water for Gonzales' 8,473 residents.* After the water comes out of these wells, we treat it with chlorine for disinfection to protect against microbial contaminants.



System Improvement

To meet the needs of our customers the City of Gonzales is continually developing and improving our water system. There are 7 million gallons of storage capacity. Gonzales now has computer controlled pumps to better monitor their system operations. Well #3 is being replaced.

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. Gonzales drinking water is from 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 septic systems, agricultural livestock operations and wildlife.

Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from storm water runoff, industrial or domestic wastewater discharges 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. 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 the drinking water contaminants detected during the 2016 calendar year. In order to ensure that tap water is safe to drink, the California State Water Resources Control Board, Division of Drinking Water prescribes regulations, which limit the amount of certain contaminants in water provided by public water systems. We treat our water according to the Board's regulations. The California Department of Public Health's Food and Drug Branch regulations establish limits for contaminants in bottled water, which must provide the same protection for the public. 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 water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791). 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, 2016. 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 2016

PRIMARY STANDARDS – MANDATED HEALTH RELATED STANDARDS							
Contaminant	Violation Y/N	Highest No. of Detections			MCL	PHG	Likely Source of Contamination
Microbiological Contaminants							
Total Coliform Bacteria <i>(State Total Coliform Rule)</i>	N	1			>1/month	0	Naturally Present in the Environment
Fecal Coliform or E. coli <i>(State Total Coliform Rule)</i>	N	0			0	0	Human and animal fecal waste
E. coli <i>(Federal Revised Total Coliform Rule - from 4/1/16-12/31/16)</i>	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	3.86	2.8 . 7.4	pCi/L	15	N/A	Erosion of natural deposits
Inorganic Contaminants*							
Fluoride	N	0.17	0.15 - 0.18	ppm	2.0	1.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories
Hexavalent Chromium	N	2.6	0.2 . 4.6	ppb	10	.02	Discharge from electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities; erosion of natural deposits
Nitrate (as N)**	N	3.1	0.6 . 5.6	ppm	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
SECONDARY STANDARDS* - AESTHETIC STANDARDS							
Chloride	N	29	15 - 58	ppm	500	N/A	Runoff/leaching from natural deposits; sea water influence
Color	N	2	<2 . 2	Units	15	N/A	Naturally-occurring organic materials
Iron	N	71	ND . 100	ppb	300	N/A	Leaching from natural deposits; industrial wastes
Manganese	N	20	<20 - 20	ppb	50	N/A	Leaching from natural deposits
Odor- Threshold	N	1	1	TON	3	N/A	Naturally-occurring organic materials
Specific Conductance	N	573	470-772	umho/cm	1,600	N/A	Substances that form natural deposits; sea water influence
Sulfate	N	96	80 - 126	ppm	500	N/A	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids	N	389	328 . 510	ppm	1,000	N/A	Runoff/ leaching from natural deposits; seawater influence
Turbidity	N	2.0	0.1 . 5.9	NTU	5	N/A	Soil runoff
Other Constituents*							
Sodium	N	38	26 - 61	ppm	N/A	N/A	Generally found in ground and surface water; seawater influence
Hardness	N	207	178 - 256	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							
Haloacetic Acids	N	ND	ND	ppb	60	N/A	By-product of drinking water disinfection
TTHMs . Total Trihalomethanes	N	ND	ND	ppb	80	N/A	By-product of drinking water chlorination
Residual Chlorine	N	0.20	0.0 . 0.97	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	17	ND	0	ppb	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper	17	129	0	ppb	1300	300	Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives

* Well 3 not used in 2016. Wells 4 & 5 tested in 2014, Well 6 in 2015 unless otherwise noted. **All Wells tested 2016 ***Lead & Copper in the distribution system monitored in 2016.
^ Analysis done in 2015 for Wells 4 and 5, 2014 for Well 6.

N/A: Not Applicable ND: Not Detectable at testing limit ppb: parts per billion or micrograms per liter ppm: parts per million or milligrams per liter	NTU: Nephelometric Turbidity Units pCi/l: Pico curies per liter (a measure of radiation) TON: Threshold Odor Number MFL: Million Fibers per Liter, with a fiber length greater than 10 micrometers	MCL: Maximum Contaminant Level PHG: Public Health Goal MRDL(G): Maximum Residual Disinfectant Level (Goal)
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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.
- **Maximum Contaminant Level Goal (MCLG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency.
- **Public Health Goal (PHG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.
- **Primary Drinking Water Standard (PDWS):** MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.
- **Maximum Residual Disinfectant Level (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 (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.
- **Regulatory Action Level:** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- **Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water.

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. City of Gonzales 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>.

Source Water Protection Tips for Consumers

Protection of drinking water is everyone's responsibility. You can help protect your community's drinking water source in several ways:

- Eliminate excess use of lawn and garden fertilizers and pesticides . they contain hazardous chemicals that can reach your drinking water source.
- Pick up after your pets.
- Dispose of chemicals properly; take used motor oil to a recycling center.
- Volunteer in your community. Gonzales has several cleanup events that are listed on the community calendar. These prevent pollution of groundwater. (www.ci.gonzales.ca.us/calendar.php)



Water Conservation Tips for Consumers

Did you know that the average U.S. household uses approximately 400 gallons of water per day or 100 gallons per person per day? Luckily, there are many low-cost and no-cost ways to conserve water. Small changes can make a big difference . try one today and soon it will become second nature.

- Take shorter showers . a 5 minute shower uses 4 to 5 gallons of water compared to up to 50 gallons for a bath.
- Shut off water while brushing your teeth, washing your hair and shaving and save up to 500 gallons a month.
- Install water-efficient showerheads. They are inexpensive, easy to install, and can save you up to 750 gallons a month.
- Run your clothes washer and dishwasher only when they are full. You can save up to 1,000 gallons a month.
- Water plants only when necessary.
- Fix leaking toilets and faucets. Faucet washers are inexpensive and take only a few minutes to replace. To check your toilet for a leak, place a few drops of food coloring in the tank and wait. If it seeps into the toilet bowl without flushing, you have a leak. Fixing it or replacing it with a new, more efficient model can save up to 1,000 gallons a month.
- Adjust sprinklers so only your lawn is watered. Apply water only as fast as the soil can absorb it and during the cooler parts of the day to reduce evaporation. Gonzales has only two days a week permitted for outdoor irrigation, Wednesdays and Sundays.
- Teach your kids about water conservation to ensure a future generation that uses water wisely. Make it a family effort to reduce next month's water bill!

Contact city staff at (831) 675-5000 with any questions on the water supply.

Visit www.epa.gov/watersense for more information.