

2016 Annual Drinking Water Quality Report

Laton Community Services District

*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, 2016.*

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

We are pleased to provide you with this year's Annual Water Quality Report. We want to keep you informed about the excellent water and services we have delivered to you over the past year. Our goal is and always has been, to provide you with a safe and dependable supply of drinking water. Our water source comes from three active wells, Well No. 4, Well No. 5 and Well No. 6. The pump on Well No. 6 was replaced through drought funding received from the State of California Division of Drinking Water. Well 5 was not used during 2016 because the pump was being repaired. Well 5 will be returned to service in 2017.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. Because of pump problems the sampling of Well 5 could not be accomplished during our regular sampling period. A sample for nitrate was taken in December. The results of this test were not sent to the State Water Resources Control Board (SWRCB). This failure to forward the test results represents a monitoring violation. This violation of the regulations was corrected by sending the laboratory testing result to the SWRCB. The result of this annual nitrate test showed the nitrates in Well 5 to be extremely low.

A source water assessment was conducted for the water supply wells of the Laton Community Services water supply wells in July, 2001. The sources are considered most vulnerable to the following activities not associated with any detected contaminants: sewer collection systems, historic gas stations and agricultural/irrigation wells. A copy of the complete assessment may be viewed at Laton Community Services District Office, 20798 S. Fowler Avenue, Laton CA. You may request a summary of the assessment be sent to you by contacting Mr. Daniel Chapa, General Manager, (559) 923-4802.

If you have any questions about this report or concerning your water utility, please contact Mr. Daniel Chapa, General Manager at (559) 923-4802. You may also write to Mr. Chapa at Laton Community Services District, P. O. Box 447, Laton, CA 93242. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the third Wednesday of every month at 6:00 p.m. at 6501 E. Latonia Street, Laton, CA.

The following are definitions of some of the TERMS USED IN THIS REPORT:

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 (USEPA).

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.

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.

Primary Drinking Water Standards (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

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

Regulatory Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Variations and Exemptions: State Board permission to exceed an MCL or not comply with a treatment technique under certain conditions.

Level 1 Assessment: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment: A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

N/A: Not applicable

ND: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)

ppb: parts per billion or micrograms per liter (µg/L)

ppt: parts per trillion or nanograms per liter (ng/L)

ppq: parts per quadrillion or picogram per liter (pg/L)

pCi/L: picocuries per liter (a measure of radiation)

In general, sources of drinking water (both tap water and bottled water) may 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.

Constituents that may be present in source water to contamination levels 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 stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- *Pesticides and herbicides* that may come from a variety of sources such as agriculture, urban stormwater runoff 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 stormwater runoff, agricultural application and septic systems.
- *Radioactive contaminants* that can be naturally occurring or the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the U. S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board – Division of Drinking Water (DDW) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. DDW regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.

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. Laton Community Service District 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>.

The tables on the next page list all the drinking water constituents that were detected during the most recent samplings for the constituent. The presence of these constituents in the water does not necessarily indicate that the water poses a health risk. The DDW requires us to monitor for certain constituents less than once per year because the concentrations of these constituents are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, are therefore more than one year old.

SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA

Microbiological Contaminants	Highest No. of detections	No. of months in violation	MCL	MCLG	Typical Source of Contamination
Total Coliform Bacteria	0	0	1 positive monthly sample	0	Naturally present in the environment

Total Coliform: Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, bacteria may be present.

TEST RESULTS (A)

Lead and Copper Rule	No. of samples collected	MCLG	Action Level	90 th percentile level detected	No. Sites Exceeding Action Level	Typical Source of Contamination
Lead (ppb) 2015	10	2	15	ND	0	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm) 2015	10	0.3	1.3	ND	0	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

RADIOACTIVE CONTAMINANTS (B)						
Chemical or Constituent (and reporting units)	MCL	PHG (MCLG)	Sample Date	Weighted Average Level Detected (C)	Range (B)	Likely Source of Contamination
Gross Alpha Activity (pCi/L)	15	N/A	2011/2013	< 3	ND to 3.31	Erosion of natural deposits

SAMPLING RESULTS FOR SODIUM AND HARDNESS						
Chemical or Constituent (and reporting units)	MCL	PHG [MCLG]	Sample Date	Weighted Average Level Detected (C)	Range	Likely Source of Contamination
Hardness (ppm)	None	None	2014/2016	29	28 to 40	Generally found in ground and surface water
Sodium (ppm)	None	None	2014/2016	22	20 to 22	Generally found in ground and surface water

DETECTION OF CONTAMINANTS WITH A <u>PRIMARY</u> DRINKING WATER STANDARD (B)						
Chemical or Constituent (and reporting units)	MCL	PHG [MCLG]	Sample Date	Weighted Average Level Detected (C)	Range	Likely Source of Contamination
Nitrate as N (ppm)	10 (C)	10	2016	ND	ND to 2.7 (D)	Runoff and leaching from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

DETECTION OF CONTAMINANTS WITH A <u>SECONDARY</u> DRINKING WATER STANDARD (E)						
Chemical or Constituent (and reporting units)	MCL	Sample Date	Weighted Average Level Detected (C)	Range	Likely Source of Contamination	
Chloride (ppm)	500	2014/2016	9.4	4.7 to 14	Runoff/leaching from natural deposits; seawater influence	
Iron	300	2014/2016	101	ND to 610(E)	Leaching from natural deposits; industrial wastes	
Specific Conductance (µS/cm)	1600	2014/2016	160	160 to 270	Substances that form ions when in water; seawater influence	
Sulfate (ppm)	500	2014/2016	7.7	7.7 to 12	Runoff/leaching from natural deposits; industrial wastes	
Total Dissolved Solids (TDS) (ppm)	1000	2014/2016	110	110 to 180	Runoff/leaching from natural deposits	
Turbidity (Units)	5	2014/2016	0.53	0.52 to 4.2	Soil runoff	

DETECTION OF UNREGULATED CONTAMINANTS						
Constituent	Notification Level	PHG [MCLG]	Sample Date	Weighted Average Level Detected (C)	Range	Health Effects Language
Trichloropropane (1,2,3-TCP) (ppt)	5	0.7	2013 & 2016	ND	N/A	Some people who use water containing 1,2,3-Trichloropropane (TCP) in excess of the Notification Level over many years may have an increased risk of getting cancer, based on studies in laboratory animals.

(A) Results reported due to regulatory requirement or detection of a constituent.

(B) Results reported include amounts that are less than the State Water Resources Control Board – Division of Drinking Water (DDW) required detection level for this constituent.

(C) The weighted average reflects the quantity of water provided from each source of supply, be it groundwater (wells) and/or surface water along with the representative concentration for a particular constituent.

(D) **ABOUT NITRATE:** Nitrate in drinking water at levels above 10 mg/L (as N) is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in a serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels as N that are above 10 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.

(E) **ABOUT SECONDARY DRINKING WATER STANDARDS:** Iron was found at levels exceeding the Secondary MCLs. These MCLs are set to protect you against unpleasant aesthetic affects such as color, taste, odor or appearance of drinking water. The elevated levels are typically naturally occurring.

Additional General Information On Drinking Water

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some constituents. The presence of constituents does not necessarily indicate that the water poses a health risk. More information about constituents, contaminant levels and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791 or their website <http://www.epa.gov/safewater/hfacts.html>.

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 and some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers 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 1-800-426-4791.