

# 2014 Consumer Confidence Report

Water System Name: City of Fort Bragg Report Date: 5/1/2015

*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, 2014 and may include earlier monitoring data.*

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

Type of water source(s) in use: Surface Water

Name & general location of source(s): The City has three water sources- Noyo River, located off Madsen Lane, Water Fall Gulch located off Simpson Lane, Newman Reservoir located off Summers Lane.

Drinking Water Source Assessment information: An assessment was conducted in April 2008 by a certified Hydrologist. The City's raw water sources are of high quality due to the relative health of our watersheds compared to those in more populated or industrialized areas. All natural water contains dissolved minerals and organic matter. Our source waters contain naturally occurring inorganics and organic matter from native soils. The City's source waters remain vulnerable to the effects of urbanization, road construction, applied and stored chemicals and petroleum, septic systems, agriculture, and illegal dumping activity. A copy of this assessment is available at Fort Bragg City Hall, 416 N. Franklin St.

Time and place of regularly scheduled board meetings for public participation: 6:00 pm at Town Hall on the second and fourth Mondays of the month.

For more information, contact: Heath Daniels Phone: (707) 961-4141

TERMS USED IN THIS REPORT	
<p><b>Maximum Contaminant Level (MCL):</b> 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.</p>	<p><b>Primary Drinking Water Standards (PDWS):</b> MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.</p>
<p><b>Maximum Contaminant Level Goal (MCLG):</b> 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).</p>	<p><b>Secondary Drinking Water Standards (SDWS):</b> 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.</p>
<p><b>Public Health Goal (PHG):</b> 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.</p>	<p><b>Treatment Technique (TT):</b> A required process intended to reduce the level of a contaminant in drinking water.</p>
<p><b>Maximum Residual Disinfectant Level (MRDL):</b> 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.</p>	<p><b>Regulatory Action Level (AL):</b> The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.</p>
<p><b>Maximum Residual Disinfectant Level Goal (MRDLG):</b> 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.</p>	<p><b>Variations and Exemptions:</b> State Board permission to exceed an MCL or not comply with a treatment technique under certain conditions.</p>
	<p><b>ND:</b> not detectable at testing limit</p>
	<p><b>ppm:</b> parts per million or milligrams per liter (mg/L)</p>
	<p><b>ppb:</b> parts per billion or micrograms per liter (µg/L)</p>
	<p><b>ppt:</b> parts per trillion or nanograms per liter (ng/L)</p>
	<p><b>ppq:</b> parts per quadrillion or picogram per liter (pg/L)</p>
	<p><b>pCi/L:</b> picocuries per liter (a measure of radiation)</p>

**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 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, and residential uses.
- *Organic chemical contaminants*, including synthetic and volatile organic chemicals that are by-products 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 be the result of oil and gas production and mining activities.

**In order to ensure that tap water is safe to drink**, the USEPA and the State Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, 5, 7, and 8 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The State Board allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old.

<b>TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA</b>					
<b>Microbiological Contaminants</b> (complete if bacteria detected)	<b>Highest No. of Detections</b>	<b>No. of months in violation</b>	<b>MCL</b>	<b>MCLG</b>	<b>Typical Source of Bacteria</b>
Total Coliform Bacteria	(In a mo.)	0	More than 1 sample in a month with a detection	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i>	(In the year)	0	A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or <i>E. coli</i>	0	Human and animal fecal waste

<b>TABLE 2 – SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER</b>							
<b>Lead and Copper</b> (complete if lead or copper detected in the last sample set)	<b>Sample Date</b>	<b>No. of samples collected</b>	<b>90<sup>th</sup> percentile level detected</b>	<b>No. sites exceeding AL</b>	<b>AL</b>	<b>PHG</b>	<b>Typical Source of Contaminant</b>
Lead (ppb)	8/22/12	20	ND	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	8/22/12	20	0.16	0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

<b>TABLE 3 – SAMPLING RESULTS FOR SODIUM AND HARDNESS</b>						
<b>Chemical or Constituent</b> (and reporting units)	<b>Sample Date</b>	<b>Level Detected</b>	<b>Range of Detections</b>	<b>MCL</b>	<b>PHG (MCLG)</b>	<b>Typical Source of Contaminant</b>
Sodium (ppm)	11/12/14	12.7	12-13	none	none	Salt present in the water and is generally naturally occurring
Hardness (ppm)	11/12/14	31.7	11-73	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

\*Any violation of an MCL or AL is asterisked. Additional information regarding the violation is provided later in this report.

<b>TABLE 4 – DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD</b>						
<b>Chemical or Constituent</b> (and reporting units)	<b>Sample Date</b>	<b>Level Detected</b>	<b>Range of Detections</b>	<b>MCL [MRDL]</b>	<b>PHG (MCLG) [MRDLG]</b>	<b>Typical Source of Contaminant</b>
Aluminum (ppm)	11/12/14	0.114	0.050-0.200	1.0	0.6	Erosion of natural deposits; residue from some surface water treatment processes
Fluoride (ppm)	11/12/14	0.13	ND-0.13	2.0	1.0	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Gross Alpha Particle Activity (pCi/L)	9/6/2006	0.48	0.36-0.59	15.0	0	Erosion of natural deposits
Turbidity (NTU)	11/12/14	1.12	0.37-1.90	TT	n/a	Soil runoff
Haloacetic Acids (ppb)	3/10-6/10-9/9-12/9/2014	27.2	15.6-40.6	60	n/a	Byproduct of drinking water disinfection
Total Trihalomethanes (ppb)	3/10-6/10-9/9-12/9/2014	37.2	19.9-53.1	80	n/a	Byproduct of drinking water disinfection

<b>TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD</b>						
<b>Chemical or Constituent (and reporting units)</b>	<b>Sample Date</b>	<b>Level Detected</b>	<b>Range of Detections</b>	<b>MCL</b>	<b>PHG (MCLG)</b>	<b>Typical Source of Contaminant</b>
Aluminum (ppb)	11/12/14	0.114	50-200	200	n/a	Erosion of natural deposits; residue from some surface water treatment processes
Chloride (ppm)	11/12/14	13.8	9.6-17	500	n/a	Runoff / leaching from natural deposits; seawater influence
Color (Units)	11/12/14	90*	50-200	15	n/a	Naturally occurring organic materials
Iron (ppb)	11/12/14	147	110-210	300	n/a	Leaching from natural deposits; industrial wastes
Manganese (ppb)	11/12/14	6.7	ND-20	50	n/a	Leaching from natural deposits
Odor- Threshold (Units)	11/12/14	7.8*	ND-20	3	n/a	Naturally -occurring organic materials
Specific Conductance (uS/cm)	11/12/14	123.3	84-190	1600	n/a	Substances that form ions when in water: sea water influence
Sulfate (ppm)	11/12/14	3.8	2.7-5.0	500	n/a	Runoff / leaching from natural deposits; Industrial wastes
Total Dissolved Solids (ppm)	11/12/14	71.6	57-96	1000	n/a	Runoff / leaching from natural deposits
Odor- Threshold (Units)	11/12/14	7.8*	ND-20	3	n/a	Naturally -occurring organic materials
Turbidity (Units)	11/12/14	1.12	0.37-1.9	5	n/a	Soil runoff

\*Any violation of an MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

**Additional General Information on Drinking Water**

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 USEPA’s Safe Drinking Water Hotline (1-800-426-4791).

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

Lead-Specific Language for Community Water Systems: 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 City of Fort Bragg 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>.

**Summary Information for Violation of a MCL, MRDL, AL, TT, or Monitoring and Reporting Requirement**

<b>VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT</b>				
<b>Violation</b>	<b>Explanation</b>	<b>Duration</b>	<b>Actions Taken to Correct the Violation</b>	<b>Health Effects Language</b>
<b>Color</b>	<b>Color was high due to rain fall prior to sampling</b>	<b>During winter months</b>	<b>Filtering of the water at the treatment plant; color was ND for the finished water</b>	<b>Color is secondary standard that has no health effects only aesthetic qualities</b>
<b>Odor-Threshold</b>	<b>Organics in surface water</b>	<b>Winter and fall</b>	<b>Filtering of the water at the treatment plant</b>	<b>Color is secondary standard that has no health effects only aesthetic qualities</b>

**For Systems Providing Surface Water as a Source of Drinking Water**

TABLE 8 - SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES	
Treatment Technique <sup>(a)</sup> (Type of approved filtration technology used)	Alternative
Turbidity Performance Standards <sup>(b)</sup> (that must be met through the water treatment process)	Turbidity of the filtered water must: 1 – Be less than or equal to 0.20 NTU in 95% of measurements in a month. 2 – Not exceed 0.20 NTU for more than eight consecutive hours. 3 – Not exceed 1.0 NTU at any time.
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	99.9%
Highest single turbidity measurement during the year	.297
Number of violations of any surface water treatment requirements	0

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

(b) Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.

\* Any violation of a TT is marked with an asterisk. Additional information regarding the violation is provided below.

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