2020 Consumer Confidence Report

Water System Information

Water System Name: Big Pine Community Service District

Report Date: 6/17/2021

Type of Water Source(s) in Use: 1 Primary groundwater well and 2 backup ground water wells

Name and General Location of Source(s): Primary well south west of community. Backup well located in the District boundary.

Drinking Water Source Assessment Information: 2002 1nd 2015 Source assessment is accomplished by DWP (Department of Water and Power) and reported to the State. Source assessment may be viewed at BPCSD District office.

Time and Place of Regularly Scheduled Board Meetings for Public Participation: 6:00 PM at District office the 3rd Wednesday of every month unless noticed otherwise.

For More Information, Contact: BPCSD office. 760 938-2660.

About This 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 to December 31, 2020 and may include earlier monitoring data.

Importance of This Report Statement in Five Non-English Languages (Spanish, Mandarin, Tagalog, Vietnamese, and Hmong)

Language in Spanish: Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Big Pine CSD a (760) 938-2660 para asistirlo en español.

Terms Used in This Report

Term	Definition
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.
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

Term	Definition
	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 (U.S. EPA).
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.
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.
Regulatory Action Level (AL)	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
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.
Variances and Exemptions	Permissions from the State Water Resources Control Board (State Board) to exceed an MCL or not comply with a treatment technique under certain conditions.
ND	Not detectable at testing limit.
ppm	parts per million or milligrams per liter (mg/L)
ppb	parts per million or milligrams per liter (ug/L)
ppt	parts per trillion or nanograms per liter (ng/L)
NTU	nephelometric turbidity units (a measure of cloudiness)
µs/cm	microSiemens per centimeter (a measure of electric conductivity)
pCi/L	picocuries per liter (a measure of radiation)

Sources of Drinking Water and Contaminants that May Be Present in Source Water

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 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 be the result of oil and gas production and mining activities.

Regulation of Drinking Water and Bottled Water Quality

In order to ensure that tap water is safe to drink, the U.S. EPA and the State Board prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration regulations and California law also establish limits for contaminants in bottled water that provide the same protection for public health.

About Your Drinking Water Quality

Drinking Water Contaminants Detected

Tables 1, 2, 3, 4, 5, 6, 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. Any violation of an AL, MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

Table 1. Sampling Results Showing the Detection of Coliform Bacteria

Microbiological Contaminants	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria (State Total Coliform Rule)	0	0	1 positive monthly sample [(a)]	0	Naturally present in the environment
Fecal Coliform or *E. coli*	0	0	A routine sample and a repeat sample are total coliform positive, and	None	Human and animal fecal waste

Microbiological Contaminants	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
(State Total Coliform Rule)			one of these is also fecal coliform or *E. coli* positive		
E. coli (Federal Revised Total Coliform Rule)	0	0	(b)	0	Human and animal fecal waste

(a) Two or more positive monthly samples is a violation of the MCL
(b) Routine and repeat samples are total coliform-positive and either is *E. coli*-positive or system fails to take repeat samples following *E. coli*-positive routine sample or system fails to analyze total coliform-positive repeat sample for *E. coli*.

Table 2. Sampling Results Showing the Detection of Lead and Copper

Lead and Copper	Sample Date	No. of Sam-ples Collect-ed	90th Percen-tile Level Detected	No. Sites Exceed-ing AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant
Lead (ppb)	2018	10	ND	0	15	0.2	0	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	2018	10	0.072	0	1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

Table 3. Sampling Results for Sodium and Hardness

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	7/15/2020	11.95	11.2-12.7	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	7/15/2020	68.5	59-78	None	None	Sum of polyvalent cations present in the water, generally magnesium and

						calcium, and are usually naturally occurring

Table 4. Detection of Contaminants with a Primary Drinking Water Standard

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Gross Beta Particle Activity (pCi/L)	11/8/2006 11/19/2019	1.95	0.76-4	50	(0)	Decay of natural and man-made deposits
Gross Alpha Particle Activity (pCi/L)	7/15/2020	<3.0	<3.0	15	400	Erosion of natural deposits
Radium 228 (pCi/L)	6/12/2017 11/19/2019	<1.0	<1.0	5	0.019	Erosion of natural deposits
Radium 226 (pCi/L)	6/12/2017 11/19/2019	<1.0	<1.0	5	0.05	Erosion of natural deposits
Uranium (pCi/L)	7/15/2020	1.65	1.2-2.1	20	0.43	Erosion of natural deposits
Arsenic (ppb)	7/15/2020	0.5	0-1	10	2	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Barium ((ug/l))	7/15/2020	11.6	10.7-12.5	1000	100	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits
Fluoride (ppm)	7/15/2020	0.052	0-0.104	2	0.1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate (AS N)(mg/l)	7/15/2020	0.3185	0-0.637	10	0.4	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural

Table 5. Detection of Contaminants with a Secondary Drinking Water Standard

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
Color (ACU)	7/15/2020	4	4	15		Naturally-occurring organic materials
Odor (ton)	7/15/202	0-1	0.5	1		Naturally-occurring organic materials
Chloride (ppm)	7/15/2020	7.735	5.07-10.4	500		Runoff/Leaching from natural deposits
Iron (ppb)	7/15/2020	11.4	0-22.8	300		Leaching from natural deposits; industrial wastes
PH Units	7/15/2020 10/21/2020	7.03	6.76-7.3	0		Physical characteristic
Turbidity (NTU)	7/15/2020	0.15	<0.1-0.2	5		Physical characteristic
Specific Conductance (µS/cm)	7/15/2020	198	185-211	1600		Substances that form ions when in water; seawater influence
Sulfate (ppm)	7/15/2020	9.625	8.75-10.5	500		Runoff/Leaching from natural deposits; industrial wastes
Bicarbonate Alkalinity (mg/l)	7/15/2020	92.4	80.8-104	0		Runoff/leaching from natural deposits
Magnesium (mg/l)	7/15/2020	4.14	3.51-4.77	0		Runoff/leaching from natural deposits

Table 6. Detection of Unregulated Contaminants

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects Language
Vanadium (ug/l)	7/15/2020	2.25	0-4.5	50	Vanadium exposure resulted in developmental and reproductive effects in rats.

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 U.S. EPA'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. U.S. EPA/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: 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. Big Pine CSD 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. [Optional: If you do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering plants.] 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 (1-800-426-4791) or at http://www.epa.gov/lead.

Additional Special Language for Nitrate, Arsenic, Lead, Radon, and *Cryptosporidium*: *While your drinking water meets the federal and state standard for arsenic, it does contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The U.S. Environmental Protection Agency continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.*
Our water contains an average fluoride level of 0.0- 0.104 mg/L. You may want to contact your child's pediatrician and/or dentist with this information to help them determine if fluoride supplements or treatments are needed.