

2019 Consumer Confidence Report

Water System Name: PANOCHÉ WATER DISTRICT

Report Date: 6/19/2020

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, 2019 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse [PANOCHÉ WATER DISTRICT, 52027 W. ALTHEA FIREBAUGH, CA 93622, (209) 509-5780] para asistirlo en español.

Ang pag-uulat na ito ay naglalaman ng mahalagang impormasyon tungkol sa inyong inuming tubig. Mangyaring makipag-ugnayan sa [PANOCHÉ WATER DISTRICT, 52027 W. ALTHEA FIREBAUGH, CA 93622, (209) 509-5780] para matulungan sa wikang Tagalog.

Báo cáo này chứa thông tin quan trọng về nước uống của bạn. Xin vui lòng liên hệ [PANOCHÉ WATER DISTRICT, 52027 W. ALTHEA FIREBAUGH, CA 93622, (209) 509-5780] để được hỗ trợ giúp bằng tiếng Việt.

Tsaw ntawv no muaj cov ntsiab lus tseem ceeb txog koj cov dej haus. Thov hu rau [[PANOCHÉ WATER DISTRICT, 52027 W. ALTHEA FIREBAUGH, CA 93622, (209) 509-5780] rau kev pab hauv lus Askiv.

Type of water source(s) in use: CALIFORNIA AQUEDUCT RAW SURFACE WATER

Name & general location of source(s): _____

Drinking Water Source Assessment information: 52027 W. Althea Ave Firebaugh Ca 93622

Time and place of regularly scheduled board meetings for public participation: _____

For more information, contact: DANNY MILLER

Phone: (209) 509-5780

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 (U.S. EPA).

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.

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.

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.

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)

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.

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.

Tables 1, 2, 3, 4, 5, and 6 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 (complete if bacteria detected)	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria (state Total Coliform Rule)	(In a month) 0	0	1 positive monthly sample ^(a)	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	(In the year) 0	0	A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or <i>E. coli</i> positive	0	Human and animal fecal waste
<i>E. coli</i> (federal Revised Total Coliform Rule)	(In the year)	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 (complete if lead or copper detected in the last sample set)	Sample Date	No. of Samples Collected	90 th Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant
Lead (ppb)	9/15/201 7	5	0.75	0	15	0.2	Not applicable	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	9/15/201 7	5	15.75	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 Detecte d	Range of Detections	MCL	PHG (MCL G)	Typical Source of Contaminant
Sodium (ppm)	3-25-2019	21	N/A	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	3-25-2019 6-13-2019	43	35-51	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 Detecte d	Range of Detections	MCL [MRDL]	PHG (MCL G) [MRD LG]	Typical Source of Contaminant
ALUMINUM (mg/L)	3-25-2019	0.33	N/A	1	0.6	Erosion of natural deposits; residue from some surface water treatment processes
ARSENIC (µg/L)	3-25-2019	ND	N/A	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
BARIUM (mg/L)	3-25-2019	0.025	N/A	1	2	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits
NITRATE as (N) (mg/L)	3-25-2019	ND	N/A	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
NICKEL (µg/L)	3-25-2019	1.6	N/A	100	12	Erosion of natural deposits; discharge from metal factories
PERCHLORATE (µg/L)	3-25-2019	ND	N/A	6	1	Perchlorate is an inorganic chemical used in solid rocket propellant, fireworks, explosives, flares, matches, and a variety of industries. It usually gets into drinking water as a result of environmental contamination from historic aerospace or other industrial operations that used or use, store, or dispose of perchlorate and its salts.
TTHMs (Total Trihalomethanes) (µg/L)	2-12-2019 4-3-2019 5-20-2019 6-13-2019 8-28-2019 9-26-2019 10-22-2019 11-25-2019 12-19-2019	68.5	27-110	80	N/A	Byproduct of drinking water disinfection
CHLORINE (Distribution System) (mg/L)	JAN-DEC 2019	1.86	1.2-3.3	[MRDL = 4.0 (as Cl ₂)]	[MRD LG = 4 (as Cl ₂)]	Drinking water disinfectant added for treatment
FLUORIDE (mg/L)	3-25-2019	ND	N/A	2.0	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
CHROMIUM (µg/L)	3-25-2019	1.4	N/A	50	(100)	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
GROSS ALPHA PARTICLE ACTIVITY (pCi/L)	3-25-2019	2.4	N/A	15	(0)	Erosion of natural deposits
HAA5 [Sum of 5 Haloacetic Acids]	2-12-2019 4-3-2019	53.3	1.0-110	60	N/A	Byproduct of drinking water disinfection

(µg/L)	5-20-2019 6-13-2019 8-28-2019 9-26-2019 10-22-2019 11-25-2019 12-19-2019					
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TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD

Chemical or Constituent (and reporting units)	Sample Date	Level Detecte d	Range of Detections	SMCL	PHG (MCL G)	Typical Source of Contaminant
ALUMINUM (µg/L)	3-25-2019	330*	N/A	200	NONE	Erosion of natural deposits; residual from some surface water treatment processes
COLOR (Units)	3-25-2019	25*	N/A	15	NONE	Naturally-occurring organic materials
IRON (µg/L)	3-25-2019	460	N/A	300	NONE	Leaching from natural deposits; industrial wastes
ODOR—THRESHOLD (Units)	3-25-2019	1.0	N/A	3	NONE	Naturally-occurring organic materials
TURBIDITY (Units)	3-20-2019	8.1*	N/A	5	NONE	Soil runoff
ZINC (mg/L)	3-25-2019	0.020	N/A	5.0	NONE	Runoff/leaching from natural deposits; industrial wastes
TOTAL DISSOLVED SOLIDS (TDS) (mg/L)	3-25-2019	130	N/A	1000	NONE	Runoff/leaching from natural deposits
SPECIFIC CONDUCTANCE (µS/cm)	3-25-2019	210	N/A	1600	NONE	Substances that form ions when in water; seawater influence
MANGANESE (ug/L)	3-25-2019	30	N/A	50	NONE	Leaching from natural deposits
CHLORIDE (mg/L)	3-25-2019	20	N/A	500	NONE	Runoff/leaching from natural deposits; seawater influence
SULFATE (mg/L)	3-25-2019	21	N/A	500	NONE	Runoff/leaching from natural deposits; industrial wastes

TABLE 6 – DETECTION OF UNREGULATED CONTAMINANTS

Chemical or Constituent (and reporting units)	Sample Date	Level Detecte d	Range of Detections	Notification Level	Health Effects Language

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. [PANOCHE WATER 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. **[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>.

Secondary standards are in place to establish an acceptable aesthetic quality of the water due to color, taste and odor.

Leaching from natural deposits; industrial wastes.

Barium- Some people who drink water containing barium in excess of the MCL over many years may experience an increase in blood pressure.

Color- There are no mandatory health effects only the "typical source of contamination"- Naturally-occurring organic materials

Zinc- There are no mandatory health effects only the "typical source of contamination"- Runoff/leaching from natural deposits; industrial wastes

TTHM- Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience liver, kidney, or central nervous system problems, and may have an increased risk of getting cancer.

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

VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT				
Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
TTHM (Total Trihalomethanes) (µg/L)	TTHM levels exceeded the MCL TTHM standard.	1 st , 2 nd , 3 rd Quarter of 2019	In 2018 because of the degradation of the soone water quality, higher organic levels have occurred causing the levels to be subsequently higher. We are in the process of looking into treatment options to lower the containments	Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience liver, kidney, or central nervous system problems, and may have an increased risk of getting cancer.
HAA5 [Sum of 5 Haloacetic Acids] (µg/L)	HAA5 levels exceeded the MCL HAA5 standard.	1 st , 2 nd , 3 rd Quarters of 2019	We are looking into installing pre treatment or GAC Filtration System.	Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

For Water Systems Providing Groundwater as a Source of Drinking Water

TABLE 7 – SAMPLING RESULTS SHOWING
FECAL INDICATOR-POSITIVE GROUNDWATER SOURCE SAMPLES

Microbiological Contaminants (complete if fecal-indicator detected)	Total No. of Detections	Sample Dates	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
<i>E. coli</i>	(In the year)		0	(0)	Human and animal fecal waste

Enterococci	(In the year)		TT	N/A	Human and animal fecal waste
Coliphage	(In the year)		TT	N/A	Human and animal fecal waste

**Summary Information for Fecal Indicator-Positive Groundwater Source Samples,
Uncorrected Significant Deficiencies, or Groundwater TT**

SPECIAL NOTICE OF FECAL INDICATOR-POSITIVE GROUNDWATER SOURCE SAMPLE				
SPECIAL NOTICE FOR UNCORRECTED SIGNIFICANT DEFICIENCIES				
VIOLATION OF GROUNDWATER TT				
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language

For Systems Providing Surface Water as a Source of Drinking Water

TABLE 8 - SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES	
Treatment Technique ^(a) (Type of approved filtration technology used)	
Turbidity Performance Standards ^(b) (that must be met through the water treatment process)	Turbidity of the filtered water must: 1 – Be less than or equal to ____ NTU in 95% of measurements in a month. 2 – Not exceed ____ NTU for more than eight consecutive hours. 3 – Not exceed ____ NTU at any time.
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	100%
Highest single turbidity measurement during the year	0.080
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.

APPENDIX B: eCCR Certification Form (Suggested Format)

Consumer Confidence Report Certification Form

(To be submitted with a copy of the CCR)

Water System Name: PANOCHE WATER DISTRICT

Water System Number: 1000345

The water system named above hereby certifies that its Consumer Confidence Report was distributed on _____ **(date)** to customers (and appropriate notices of availability have been given). Further, the system certifies that the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the State Water Resources Control Board, Division of Drinking Water (DDW).

Certified by: Name: DANNY MILLER

Signature: _____

Title: WATER SYSTEM OPERATOR

Phone Number: (209) 509-5780

Date: _____

*To summarize report delivery used and good-faith efforts taken, **please complete this page by checking all items that apply and fill-in where appropriate.***

- ☐ CCR was distributed by mail or other direct delivery methods (attach description of other direct delivery methods used).
- ☐ CCR was distributed using electronic delivery methods described in the Guidance for Electronic Delivery of the Consumer Confidence Report (water systems utilizing electronic delivery methods must complete the second page).
- ☐ "Good faith" efforts were used to reach non-bill paying consumers. Those efforts included the following methods:
 - ☐ Posting the CCR at the following URL: www._____
 - ☐ Mailing the CCR to postal patrons within the service area (attach zip codes used)
 - ☐ Advertising the availability of the CCR in news media (attach copy of press release)
 - ☐ Publication of the CCR in a local newspaper of general circulation (attach a copy of the published notice, including name of newspaper and date published)
 - ☐ Posted the CCR in public places (attach a list of locations)
 - ☐ Delivery of multiple copies of CCR to single-billed addresses serving several persons, such as apartments, businesses, and schools
 - ☐ Delivery to community organizations (attach a list of organizations)
 - ☐ Publication of the CCR in the electronic city newsletter or electronic community newsletter or listserv (attach a copy of the article or notice)
 - ☐ Electronic announcement of CCR availability via social media outlets (attach list of social media outlets utilized)
 - ☐ Other (attach a list of other methods used)
- ☐ *For systems serving at least 100,000 persons:* Posted CCR on a publicly-accessible internet site at the following URL: www._____
- ☐ *For privately-owned utilities:* Delivered the CCR to the California Public Utilities Commission

Consumer Confidence Report Electronic Delivery Certification

Water systems utilizing electronic distribution methods for CCR delivery must complete this page by checking all items that apply and fill-in where appropriate.

- ☐ Water system mailed a notification that the CCR is available and provides a direct URL to the CCR on a publicly available website where it can be viewed (attach a copy of the mailed CCR notification). URL: www._____
- ☐ Water system emailed a notification that the CCR is available and provides a direct URL to the CCR on a publicly available site on the Internet where it can be viewed (attach a copy of the emailed CCR notification). URL: www._____
- ☐ Water system emailed the CCR as an electronic file email attachment.
- ☐ Water system emailed the CCR text and tables inserted or embedded into the body of an email, not as an attachment (attach a copy of the emailed CCR).
- ☐ *Requires prior DDW review and approval.* Water system utilized other electronic delivery method that meets the direct delivery requirement.

Provide a brief description of the water system's electronic delivery procedures and include how the water system ensures delivery to customers unable to receive electronic delivery.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

This form is provided as a convenience and may be used to meet the certification requirement of section 64483(c) of the California Code of Regulations.