

## APPENDIX F: Certification Form (Suggested Format)

### Consumer Confidence Report

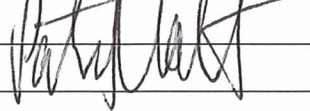
#### Certification Form

(to be submitted with a copy of the CCR)

(To certify electronic delivery of the CCR, use the certification form on the State Board's website at [http://www.swrcb.ca.gov/drinking\\_water/certlic/drinkingwater/CCR.shtml](http://www.swrcb.ca.gov/drinking_water/certlic/drinkingwater/CCR.shtml))

Water System Name: Purissima Hills Water District  
Water System Number: 4310021

The water system named above hereby certifies that its Consumer Confidence Report was distributed on June 21, 2019 (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.

Certified by: Name: Patrick Walter  
Signature:   
Title: General Manager  
Phone Number: (650) 948-1217 Date: 8/20/2019

To summarize report delivery used and good-faith efforts taken, please complete the below by checking all items that apply and fill-in where appropriate:

- ☒ CCR was distributed by mail or other direct delivery methods. Specify other direct delivery methods used:
- ☒ "Good faith" efforts were used to reach non-bill paying consumers. Those efforts included the following methods:
  - ☒ Posting the CCR on the Internet at:  
[https://www.purissimawater.org/images/Water\\_Quality\\_Report\\_2018.pdf](https://www.purissimawater.org/images/Water_Quality_Report_2018.pdf)
  - ☐ 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)
  - ☐ 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 address: www.
- ☐ For investor-owned utilities: Delivered the CCR to the California Public Utilities Commission

*This form is provided as a convenience for use to meet the certification requirement of the California Code of Regulations, section 64483(c).*

BOARD OF DIRECTORS  
PETER EVANS, PRESIDENT  
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## ***PURISSIMA PIPELINE***

### **WATER QUALITY REPORT**

Purissima Hills Water District (PHWD) is pleased to present the 2018 edition of the Water Quality Report (Consumer Confidence Report). PHWD receives 100% of its water from the San Francisco Public Utilities Commission's (SFPUC) Hetch Hetchy regional system. This report is prepared in conjunction with the SFPUC as a public service to provide information about the physical and chemical elements of our water supplies. This state-mandated annual report contains important information on the quality of your drinking water. This is in response to the National Primary Drinking Water Regulation and California Code of Regulation, Title 22, Section 116470, Regulations, which requires all public water supply agencies to issue an Annual Water Quality Report to their customers by July 1, 2019.

We want our customers to know where their drinking water comes from, how it is treated to make it safe and healthy, and the results of water quality monitoring performed by the SFPUC on a daily basis. Customers can make health decisions concerning water use for themselves and their families with the information in this report. During 2018, the SFPUC monitored water quality, both source and treated water supplies, and met the maximum contaminant levels (MCLs) and treatment standards. The PHWD and the SFPUC continue their commitment to consistently provide safe and high quality drinking water.

### **ADDITIONAL INFORMATION**

Additional information about the contents of this report can be obtained by calling the District office at (650) 948-1217. Decisions about water issues are made in public meetings. The Board of Directors meets the second Wednesday of each month at 6:30 p.m. in the District office at 26375 Fremont Road, Los Altos Hills. Call Raylene Collins, District Secretary, at (650) 948-1217, regarding any inquiries about these meetings.

Phil Witt  
Assistant General Manager  
July 2019

**PURISSIMA HILLS WATER DISTRICT  
2018 ANNUAL WATER QUALITY REPORT  
(CONSUMER CONFIDENCE REPORT)**

**SFPUC DRINKING WATER SOURCES**

Supplied by the San Francisco Regional Water System (SFRWS), which is owned and operated by the San Francisco Public Utilities Commission (SFPUC), our major water source originates from spring snowmelt flowing down the Tuolumne River to storage in Hetch Hetchy Reservoir. The well protected Sierra water source is exempt from filtration requirements by the United States Environmental Protection Agency (USEPA) and State Water Resources Control Board's Division of Drinking Water (SWRCB-DDW). To meet the appropriate drinking water standards for consumption, water from Hetch Hetchy Reservoir is treated by the SFPUC using the following processes: ultraviolet light and chlorine disinfection, pH adjustment for optimal corrosion control, fluoridation for dental health protection, and chloramination for maintaining disinfectant residual and minimizing the formation of regulated disinfection byproducts.

Hetch Hetchy water is supplemented with surface water from two local watersheds and upcountry non Hetch Hetchy sources (UNHHS). Rainfall and runoff from the 35,000-acre Alameda Watershed in Alameda and Santa Clara counties are collected in the Calaveras and San Antonio reservoirs, and delivered to the Sunol Valley Water Treatment Plant (SVWTP). Rainfall and runoff from the 23,000-acre Peninsula Watershed in San Mateo County are stored in the Crystal Springs, San Andreas and Pilarcitos reservoirs. In 2018, the SFRWS did not use UNHHS. Water at the local treatment plant is subject to filtration, disinfection, fluoridation, and optimum corrosion control by pH adjustment and taste and odor removal.

**SFPUC PROTECTS THE WATERSHEDS**

The SFPUC conducts watershed sanitary survey for Hetch Hetchy source annually and local water sources every five years as well as the UNHHS every five years. The latest local sanitary survey was completed in 2016 for the period of 2011-2015. The SFPUC conducted a special water shed sanitary survey for UNHHS in 2015 as part of its drought response plan efforts. These surveys evaluate the sanitary condition, water quality, potential contamination sources, and the results of watershed management activities, and were completed with support from partner agencies including the National Park Service and US Forest Service.

These surveys have identified wildlife, stock, and human activities as potential contamination sources. The reports are available for review at the San Francisco District office of SWRCB at **(510) 620-3474**.

**THE HIGHEST QUALITY WATER**

The SFPUC's Water Quality Division (WQD) regularly collects and tests water samples from reservoirs and designated sampling points throughout the system to ensure the water delivered to you meets or exceeds federal and state drinking water standards. In 2018, WQD staff conducted 57,690 drinking water tests in the transmission and distribution systems. This is in addition to the extensive treatment process control monitoring performed by the SFPUC's certified operators and online instruments.

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. In order to ensure that tap water is safe to drink, the USEPA and SWRCB 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.

**PURISSIMA HILLS WATER DISTRICT OPERATION AND MAINTENANCE**

PHWD, serving two-thirds of Los Altos Hills, operates the distribution system to ensure that the treated water maintains residual chloramine to prevent the re-growth of microorganisms during the storage and transmission of water. Water is kept fresh by flushing mains and cycling storage tanks, as well as maintaining an active backflow, or cross-connection control, program to help prevent the intrusion of potentially harmful materials into the drinking water system.

**Purissima Hills Water District (PHWD)**  
**2018 Water Quality Data <sup>(1)</sup>**  
**Hetch Hetchy and Sunol Valley Water Treatment Plant**

DETECTED CONTAMINANTS	Unit	MCL	PHG or (MCLG)	Range or Level Found	Average or [Max]	Major Sources in Drinking Water
<b>TURBIDITY</b>						
Unfiltered Hetch Hetchy Water	NTU	5	N/A	0.3- 0.8 <sup>(2)</sup>	[1.8]	Soil runoff
Filtrated Water from Sunol Valley Water Treatment Plant (SVWTP)	NTU	1 <sup>(3)</sup>	N/A	-	[1]	Soil runoff
	-	Min 95% of samples ≤ 0.3 NTU <sup>(3)</sup>	N/A	99.6% - 100%	-	Soil runoff
<b>DISINFECTION BYPRODUCTS AND PRECURSOR</b>						
Total Trihalomethanes	ppb	80	N/A		[42.4] <sup>(4)</sup>	Byproduct of drinking water disinfection
Haloacetic Acids	ppb	60	N/A		[54.1] <sup>(4)</sup>	Byproduct of drinking water disinfection
Total Organic Carbon <sup>(5)</sup>	ppm	TT	N/A	1.2 - 2.9	2.2	Various natural and man-made sources
<b>MICROBIOLOGICAL</b>						
Total Coliform	-	NoP ≤ 5.0% of monthly samples	(0)	-	[0%]	Naturally present in the environment
<i>Giardia lamblia</i>	cyst/L	TT	(0)	0 - 0.24	0.03	Naturally present in the environment
<b>INORGANICS</b>						
Fluoride (source water) <sup>(6)</sup>	ppm	2.0	1	ND - 0.7	0.3 <sup>(7)</sup>	Erosion of natural deposits; water additive to promote strong teeth
Chloramine (as chlorine )	ppm	MRDL = 4.0	MRDLG = 4	1.0 - 3.20	2.88 <sup>(8)</sup>	Drinking water disinfectant added for treatment

CONSTITUENTS WITH SECONDARY STANDARDS	Unit	SMCL	PHG	Range	Average	Major Sources of Contaminant
Chloride	ppm	500	N/A	<3 - 17	8.9	Runoff / leaching from natural deposits
Color	unit	15	N/A	<5 - 7	<5	Naturally-occurring organic materials
Specific Conductance	µS/cm	1600	N/A	29 - 221	154	Substances that form ions when in water
Sulfate	ppm	500	N/A	0.9 - 29	16	Runoff / leaching from natural deposits
Total Dissolved Solids	ppm	1000	N/A	<20 - 144	82	Runoff / leaching from natural deposits
Turbidity	NTU	5	N/A	ND - 0.3	0.1	Soil runoff

LEAD AND COPPER	Unit	AL	PHG	Range	90th Percentile	Major Sources in Drinking Water
Copper	ppb	1300	300	13 - 880 <sup>(9)</sup>	130.0	Internal corrosion of household water plumbing systems
Lead	ppb	15	0.2	<1.0 - 230.0 <sup>(10)</sup>	4.7	Internal corrosion of household water plumbing systems

OTHER WATER QUALITY PARAMETERS	Unit	ORL	Range	Average
Alkalinity (as CaCO <sub>3</sub> )	ppm	N/A	<3-132	51
Boron	ppb	1000 (NL)	ND - 203	ND
Bromide	ppb	N/A	<5 - 27	7
Calcium (as Ca)	ppm	N/A	2.9- 18	11
Chlorate <sup>(11)</sup>	ppb	800 (NL)	42 - 230	124
Hardness (as CaCO <sub>3</sub> )	ppm	N/A	15 - 68	47
Magnesium	ppm	N/A	0.2 - 6.2	4.0
pH	-	N/A	8.6 - 9.8	9.4
Potassium	ppm	N/A	0.2 - 1.0	0.6
Silica	ppm	N/A	2.8 - 7.1	5.0
Sodium	ppm	N/A	2.3 - 20	14
Strontium	ppb	N/A	12 - 199	99

KEY:
< / ≤ = less than / less than or equal to
AL = Action Level
Max = Maximum
Min = Minimum
N/A = Not Available
ND = Non-detect
NL = Notification Level
NoP = Number of Coliform-Positive Sample
NTU = Nephelometric Turbidity Unit
ORL = Other Regulatory Level
ppb = part per billion
ppm = part per million
µS/cm = microSiemens/centimeter

Footnotes:

(1) All results met State and Federal drinking water health standards.

(2) These are monthly average turbidity values measured every 4 hours daily.

(3) There is no turbidity MCL for filtered water. The limits are based on the TT requirements for filtration systems.

(4) This is the highest locational running annual average value.

(5) Total organic carbon is a precursor for disinfection byproduct formation. The TT requirement applies to the filtered water from the SVWTP only.

(6) In May 2015, the SWRCB recommended an optimal fluoride level of 0.7 ppm be maintained in the treated water. In 2017, the range and average of the fluoride levels were 0.5 ppm - 0.9 ppm and 0.7 ppm, respectively.

(7) The natural fluoride level in the Hetch Hetchy supply was ND. Elevated fluoride levels in the SVWTP and HTWTP raw water are attributed to the transfer of fluoridated Hetch Hetchy water into the local reservoirs.

(8) This is the highest running annual average value.

(9) The most recent Lead and Copper Rule monitoring was in July 2016. 0 of 20 site samples collected at consumer taps had copper concentrations above the AL.

(10) The most recent Lead and Copper Rule monitoring was in July 2016. 1 of 20 site samples collected at consumer taps had lead concentrations above the AL.

(11) The detected chlorate in the treated water is a degradation product of sodium hypochlorite used by the SFPUC for water disinfection.

Note: Additional water quality data may be obtained by calling Purissima Hills Water District phone number at (650) 948-1217.

## **WATER QUALITY DATA FOR 2018**

The adjacent table lists drinking water contaminants detected in 2018 and the information about their typical sources. Contaminants below detection limits for reporting are not shown, in accordance with regulatory guidance. The SFPUC received a monitoring waiver from the SWRCB-DDW for some contaminants and therefore their monitoring frequencies are less than annual.

## **CONTAMINANTS AND REGULATIONS**

Generally, the sources of drinking water (both tap water and bottled water) include rivers, lakes, oceans, 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. Such substances are called contaminants, and may be present in source water as:

- **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, can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- **Organic Chemical Contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, agricultural application and septic systems.
- **Radioactive Contaminants** can be naturally occurring or be the result of oil and gas production and mining activities.
- **Pesticides and Herbicides** that may come from a variety of sources such as agricultural, urban storm water runoff, and residential uses.

More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (800) 426-4791 or at [www.epa.gov/safewater](http://www.epa.gov/safewater).

## **KEY WATER QUALITY TERMS**

The following are definitions of key terms noted on the adjacent water quality data table. These terms refer to the standards and goals for water quality described below.

- **Public Health Goal (PHG):** The level of a contaminant in drinking water for which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.
- **Maximum Contaminant Level Goal (MCLG):** The level of a contaminant in drinking water for which there is no known or expected risk to health. MCLGs are set by the USEPA.
- **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 and MCLGs as is economically or technologically feasible. Secondary MCLs (SMCLs) are set to protect odor, taste, and appearance of drinking water.
- **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 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 Standard (PDWS):** MCLs and MRDLs for contaminants that affect health, along with their monitoring, reporting, and water treatment requirements.
- **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.
- **Turbidity:** A water clarity indicator that measures cloudiness in the water is also used to indicate the effectiveness of the filtration systems. High turbidity can hinder the effectiveness of disinfectants.

## **CRYPTOSPORIDIUM**

*Cryptosporidium* is a parasitic microbe found in most surface water. The SFPUC regularly tests for this waterborne pathogen and found it at very low levels in both source and treated water supplies in 2018. However, current test

methods approved by the USEPA do not distinguish between dead organisms and those capable of causing disease. Ingestion of *Cryptosporidium* may produce symptoms of nausea, abdominal cramps, diarrhea, and associated headaches. *Cryptosporidium* must be ingested to cause disease and it may be spread through means other than drinking water.

### **SPECIAL HEALTH NEEDS**

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly people, 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 USEPA Safe Drinking Water Hotline (800) 426-4791 or on the USEPA website [www.epa.gov/safewater](http://www.epa.gov/safewater).

### **REDUCING LEAD FROM PLUMBING FIXTURES**

Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. There are no known lead service lines in the PHWD service area. The PHWD is responsible for providing high quality drinking water, but cannot control the variety of materials used in households or building plumbing components. It is possible that lead levels at your home may be higher than at others because of plumbing materials used in your property.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Infants and young children are typically more vulnerable to lead in drinking water than the general population. 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 (or until the water temperature has changed) before using water for drinking or cooking. If you are concerned about lead levels 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 USEPA's Safe Drinking Water Hotline (800) 426-4791 or at [www.epa.gov/lead](http://www.epa.gov/lead).

### **FLUORIDATION AND DENTAL FLUOROSIS**

Mandated by State law, water fluoridation is a widely accepted practice proven to be safe and effective for preventing and controlling tooth decay. The SFPUC's fluoride target level in the water is 0.7 milligram per liter, consistent with the May 2015 State regulatory guidance on the new optimal fluoride level. Infants fed formula mixed with water containing fluoride at this level may still have a chance of developing tiny white lines or streaks in their teeth. These marks are referred to as mild to very mild fluorosis, and are often only visible under a microscope. Even in cases where the marks are visible, they do not pose any health risk. The CDC considers it safe to use optimally fluoridated water for preparing infant formula. To lessen this chance of dental fluorosis, you may choose to use low-fluoride bottled water to prepare infant formula. Nevertheless, children may still develop dental fluorosis due to fluoride intake from other sources such as food, toothpaste and dental products.

Contact your health provider or SWRCB if you have concerns about dental fluorosis. For additional information about fluoridation or oral health, visit the CDC website [www.cdc.gov/fluoridation](http://www.cdc.gov/fluoridation) or SWRCB-DDW website [www.waterboards.ca.gov/drinking\\_water/certlic/drinkingwater/Fluoridation.shtml](http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Fluoridation.shtml)

### **TASTE AND ODOR TREATMENT AT SUNOL VALLEY WATER TREATMENT PLANT**

In response to an increase in the magnitude and frequency of algal blooms in Calaveras Reservoir and San Antonio Reservoir, the SFPUC initiated a taste and odor (T&O) control program for the SVWTP in 2018. The program will address seasonal taste and odor resulting from algal blooms in the reservoirs. The first component of this program is to a Powdered Activated Carbon facility to mitigate the occurrence of taste and odor compounds. A secondary benefit of using carbon for treatment will reduce the color of the water and formation of disinfection byproducts. The long-term component of the program is an ozonation treatment facility that is currently in design phase.

Purissima Hills Water District  
26375 Fremont Road  
Los Altos Hills CA 94022

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2018 ANNUAL WATER QUALITY REPORT**