

2023 Annual

Drinking Water

Quality Report



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# 2023 Annual Drinking Water Quality Report

The California State Water Resources Control Board (SWRCB) regulations require the Channel Islands Beach Community Services District (CIBCSD) send an annual Consumer Confidence Report to all customers regarding the quality of the water they received during the previous calendar year. CIBCSD tests its water as required by SWRCB regulations and reports these results to SWRCB each month. Additionally, triennial SWRCB inspections of the operational policies and procedures are conducted. All of this is done to ensure the safety of your drinking water.

The Port Hueneme Water Agency (PHWA) Water Treatment Facility (Port Hueneme Sub Regional Water Treatment Plant) is located at 5751 Perkins Road in Oxnard. PHWA is a Joint Powers Authority formed between the CIBCSD and the City of Port Hueneme. The PHWA is governed by a five-member Board of Directors consisting of three Port Hueneme City Council members and two members of the CIBCSD Board of Directors. Additional customers of the PHWA include the Naval Base Ventura County (NBVC) with installations at Port Hueneme and Point Mugu.

The CIBCSD and PHWA are committed to providing you with complete and accurate information regarding the safety of the water you drink. The CIBCSD Board meets on the second Tuesday of every month, usually at the District Office. The PHWA Board meets monthly at Port Hueneme City Hall and the public is welcome to attend both of these meetings.



## PURPOSE OF THIS REPORT

This Annual Drinking Water Quality Report summarizes the 2023 water quality test results performed by the CIBCSD, PHWA, United Water Conservation District (United) and Calleguas Municipal Water District (Calleguas). It also includes details about where your water comes from, what it contains, and how it compares to State standards. Water constituents are listed under the appropriate water quality standard and include the maximum contaminant level, federal maximum contaminant level goal or the California public health goal, and the range of results. Water testing is routinely performed for bacteria and protozoan, disinfectant residual, minerals, radioactivity, inorganic and organic chemicals, and other water quality parameters.

## WATER SOURCE

The supply water for the PHWA Treatment Plant comes from United and accounts for about 85 percent of PHWA's water supply. United water comes from groundwater located in the El Rio area of Ventura County. This water is pumped from wells drilled into the Oxnard and Fox Canyon aquifers. These two aquifers, which are naturally high in minerals, are fed by the Santa Clara River drainage basin. The drainage basin receives water from various sources such as rivers, streams, wastewater treatment plants, and agricultural runoff.

State water imported by the Metropolitan Water District of Southern California (MWD) is also used at the PHWA treatment plant. MWD water comes from the Sierra Nevada Mountains in northern California and is conveyed through the State Water Project's network of reservoirs, aqueducts, and pump stations. The State water is filtered and disinfected by MWD surface water treatment plants and brought into Ventura County by Calleguas. Calleguas brings the State water to the PHWA treatment plant where it is blended with the treated United Water and then delivered to you. The blended water contains about 3 parts per million chloramines.



## PHWA TREATMENT PLANT

The PHWA treatment plant, when operating, uses two different types of state-of-the-art membrane filtration technologies to treat the United water. These treatment techniques are known as reverse osmosis (RO), and nanofiltration (NF). These processes operate side-by-side and each one produces between 1 and 1.5 million gallons of high-quality drinking water every day. The treatment process softens the water received from United by lowering the mineral content and minimizes the corrosiveness of the water through the addition of sodium hydroxide. In addition, the water is disinfected using chloramines instead of chlorine. Chloramines have better taste, fewer odors, and reduce the formation of trihalomethanes in the water. Trihalomethanes are a known carcinogen. Home Kidney Dialysis Patients should consult with their physician before using chloraminated water in their machines. Fish owners - you must chemically remove the chloramines in the PHWA water when preparing your fish tank water.

## IS MY TAP WATER SAFE TO DRINK?

YES! Your water is safe to drink and meets all US Environmental Protection Agency (EPA) and SWRCB water quality standards. The CIBCSD did not have any violations of any treatment, or reporting requirements during 2023. None of the constituents in the drinking water exceeded the maximum contaminant levels or action levels set by SWRCB or USEPA. The tables in this report list all the drinking water constituents that were detected during the most recent sampling period as required by SWRCB.

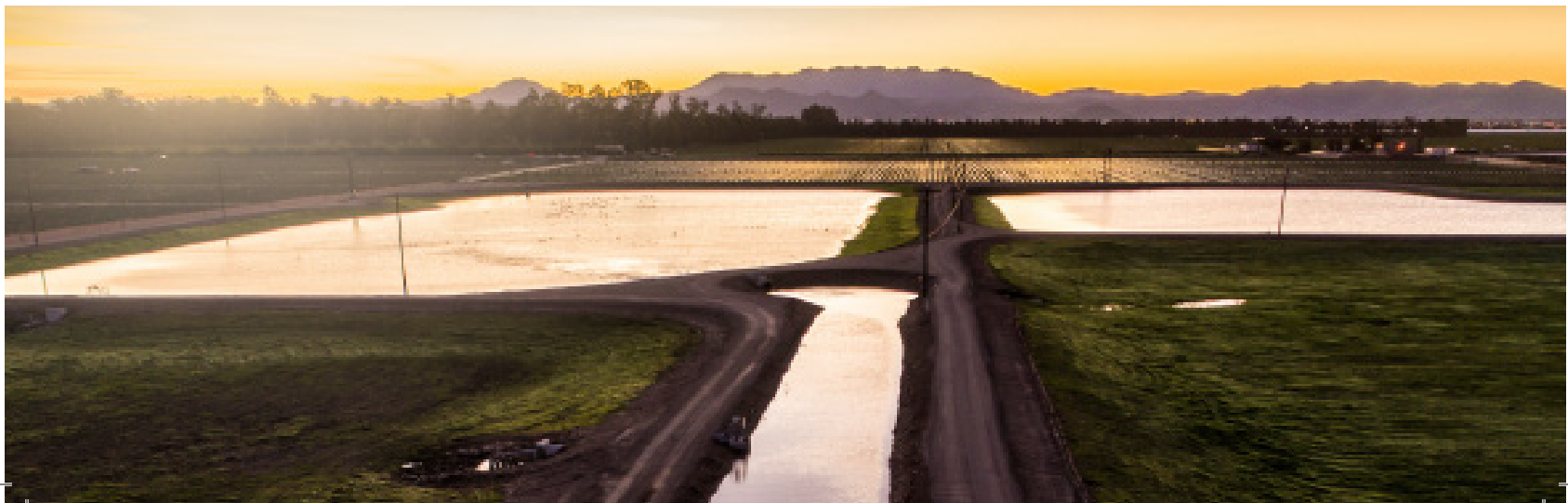


## IS TAP WATER AS SAFE AS BOTTLED WATER?

The Food and Drug Administration (FDA), not the USEPA, regulates bottled water companies. The marketing of the bottled water companies has led consumers to believe that bottled water has higher quality standards than tap water. The FDA does not require bottled water companies to test for the same constituents (such as giardia and asbestos) that the USEPA requires for tap water. Also, the FDA does not have a prohibition on total coliform bacteria.

Total coliform bacteria are prohibited in tap water. The FDA does not regulate bottled water companies that bottle and package water within the individual states. It is the responsibility of each state to regulate its bottled water companies. This accounts for 60-70% of all bottled water companies. Fortunately, California is one of the more progressive states, but as with most of the states, there is a lack of resources, compared to that provided by USEPA for tap water, for the enforcement of bottled water regulations.

Several facts about bottled water versus tap water may be of interest to you. Bottled water companies are subject to less stringent regulations or regulations that are not enforceable. Therefore, they are not required to test their water as frequently or use certified laboratories for purity testing. In addition, they are not required to document whether any potential contamination sources may exist and records do not have to be kept for longer than 2 years. In addition, bottled water plant operators are not required to be state certified. On a positive note, nearly 25% of bottled water is, in fact, tap water! With that said, if you drink bottled water, do the research and educate yourself on the quality of your bottled water.



## FACTS ABOUT LEAD IN DRINKING WATER

California's drinking water is generally at a low risk for lead contamination in drinking water. Water agencies that provide water to CIBCSD test their water in accordance to State and Federal laws to ensure it is safe to drink. Lead service lines are not common in California although homes that were built before 1986 may have used lead solder in the plumbing. CIBCSD, in accordance with State and Federal law, conducts in-home Lead and Copper testing every three years. Lead and Copper testing was performed in August of 2022.

California reduced the lead content standard for drinking water plumbing from 4% to .25% in 2010 with AB 1953. The national "Get the Lead Out" law went into effect in 2014. Extensive testing to monitor lead in drinking water began in 1991 when the USEPA implemented the Lead and Copper Rule.

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. CIBCSD 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 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.

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at (800) 426-4791 or at [www.epa.gov/lead](http://www.epa.gov/lead).



## WHY ARE CONTAMINANTS IN MY 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 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. 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. California notification levels are available on the Department's website <http://www.waterboards.ca.gov>. SWRCB regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

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 some infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The USEPA/Centers for Disease Control guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, wastewater plants 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 before it is treated include the following:

- **Microbial Contaminants** - Viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife
- **Inorganic Contaminants** - 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
- **Pesticides & Herbicides** - May come from a variety of sources such as agriculture, urban storm water runoff, and residential uses

- **Organic Chemicals** - Including synthetic and volatile organic chemicals, which are byproducts 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.

## Radon

Radon is a radioactive gas that you cannot see, taste or smell. It is found throughout the U.S. Radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build up to high levels in all types of homes. Radon can also get into indoor air when released from tap water from showering, washing dishes and other household activities. Compared to radon entering the home through soil, radon entering the home through tap water will be a small source of radon in indoor air. Radon is a known human carcinogen. Breathing air containing radon can lead to lung cancer. Drinking water containing radon may also cause increased risk of stomach cancer. If you are concerned about radon in your home, you may test the air in your home. There are simple ways to fix a radon problem that are not too costly. For additional information call the EPA's Radon Hotline (800-SOS-RADON), or visit the California Department of Public Health's web site at [www.cdph.ca.gov](http://www.cdph.ca.gov). You may also request an in home radon test kit from Alpha Energy Laboratories by calling (800) 324-5928.





# Water Capital Replacement Projects Completed

## Valve Replacement Project (CI 105)

Last year, the District replaced 40 non-operational main water valves throughout the water distribution system. Replacing inoperable and defective valves enhances our ability to respond to emergency shutdowns in a timely manner and minimizes the inconvenience to District customers during that time.

## During the Water Supply Shortage

### Water Mainline Replacement Project (CI 101)

In May of 2023, the District completed the replacement of approximately 750 ft of water mainlines bounded by the 3000 block of Ocean Dr, Harbor Blvd and Santa Ana Avenue. This project also included the abandonment of 650 ft of water pipelines that ran through a utility easement between residential properties. The benefits of this project include relocating this pipeline into the public right-of-way, which minimizes risk, in an event a failure occurred. Additionally, this allowed the District to create a looped water system that improves water quality.



# CIBCSO WATER CONSERVATION BEST PRACTICES

## Level 1 Water Supply Shortage

- Limits on Watering Hours – Before 9:00 a.m. and after 4:00 p.m. on Thursday only. Outdoor watering is allowed three days per week during the months of April, May, June, July, August, September, and October (Mon, Wed, Sat). Outdoor watering is restricted one day per week during the months of November, December, January, February, and March (Wed)
- Limit on Watering Duration – Watering is limited to no more than 10 minutes per station.
- No Excessive Water Runoff – Runoff or any water flow from landscape areas onto hard surfaces or pavement is prohibited
- No Washing Down Hard or Paved Surfaces – Washing down hard or paved surfaces is prohibited
- Large Landscape Areas – must use landscape irrigation systems with rain sensors or evapo-transpiration sensors to set an efficient water use schedule
- Obligation to Fix Leaks, Breaks or Malfunctions – Leaks must be repaired within 72 hours of notification from District
- Limits on Washing Vehicles – When washing your vehicle your hose must be equipped with a self-closing spray nozzle
- Re-circulating Water Required for Water Fountains and Decorative Water Features – Operating a water fountain or other decorative feature that does not use re-circulated water is prohibited

Take Advantage of CIBCSO'S SMART WATER METERS – CIBCSO's smart water meters are a great way for residents to keep track of their water usage in real-time using the EyeOnWater app.

Use of this app is free to residents and is available on computers, Android, and iPhone users. Please check out our smart meter application at <https://eyeonwater.com/>

Test results for the CIBCSO Public Water System and PHWA in the constituents table reflect test results of constituents that are subject to change within the CIBCSO water distribution system.

Additional Info:  
[www.epa.gov/watersense](http://www.epa.gov/watersense)  
[www.bewaterwise.com](http://www.bewaterwise.com)  
[www.saveourh2o.org](http://www.saveourh2o.org)



**EVERY  
DROP  
COUNTS!**



**Channel Islands Beach Community Services District  
2023 Consumer Confidence Report**

Parameter	Units	State MCL (MRDL)	PHG (MRLG) (MRDLG)	State DLR	Range Average	Purchased		BWRDF (Blended)	CIBCSO	Major Sources in Drinking Water
						CMWD (Calleguas)	United			
<b>Percent of Supply</b>						11%	89%	100%	100%	

**PRIMARY STANDARDS--Mandatory Health-Related Standards**

**CLARITY (a)**

Parameter	Units	Highest Single Value	TT = % of samples <0.3 NTU	0.06	0.04	ND	NA	Soil runoff
Combined Filter Effluent Turbidity	NTU			100%	100%	100%	NA	

**MICROBIOLOGICAL**

Parameter	Units	2 or 5.0%	(0)	--	Range	ND	ND	ND	ND	Naturally present in the environment
Total Coliform Bacteria	(b)				Average	ND	ND	ND	ND	
Fecal Coliform and <i>E. coli</i>	(b)				Average	ND	ND	ND	ND	Human & animal fecal waste

**INORGANIC CHEMICALS (Lead and Copper is analyzed every three years, Last sampling event was 2022)**

Parameter	Units	1000	600	50	Range	ND	ND	NA	NA	Erosion of natural deposits; residue from some water treatment process
Aluminum	ppb				Average	ND	ND	NA	NA	
Arsenic	ppb	10	0.004	2	Range	ND	24.2 - 32.7	NA	NA	Erosion of natural deposits; runoff from orchards; electronics production wastes
Barium	ppb	1000	2000	100	Average	ND	28.45	NA	NA	Discharge from oil & metal refineries; erosion of natural deposits
Chromium Treatment-related Fluoride (c)	ppb	50	(100)	10	Range	ND	ND	NA	NA	Discharge from steel & pulp mills and chrome plating; erosion of natural deposits
Nitrate (as N)	ppm	10	10	0.4	Average	ND	0.6	0.52 - 1.07	NA	Water additive that promotes strong teeth
Selenium	ppb	50	30	5	Range	ND	1.5 - 3.7	ND	NA	Runoff & leaching from fertilizer use & sewage; erosion of natural deposits

**ORGANIC CHEMICALS**

Parameter	Units	4	0	4	Range	NA	ND - 2.0	NA	NA	
PFAS Perfluorobutane Sulfonate (PFBS)	ppt				Average	NA	0.25	NA	NA	
PFAS Perfluorooctane Sulfonic Acid (PFOS)	ppt	4	0	4	Range	NA	ND - 1.8	NA	NA	

**RADIOLOGICALS (analyzed every three years, for four consecutive quarters (MWD sampled 2023, CMWD sampled 2023 and UWCD 2023))**

Parameter	Units	15	(0)	3.0	Range	3.2	2.74 - 4.67	NA	NA	Erosion of natural deposits
Gross Alpha Particle Activity (d)	pCi/L				Average	3.2	4.05	NA	NA	
Uranium	pCi/L	20	0.43	1.0	Range	1.5	4.77 - 5.19	NA	NA	Erosion of natural deposits

**DISINFECTION BY-PRODUCTS AND DISINFECTANT RESIDUALS**

Parameter	Units	10	0.1	1.0	Range	ND	NA	NA	NA	By-product of drinking water disinfection
Bromate (e)	ppb				Highest RAA	ND	NA	NA	NA	
Total Chlorine Residual	ppm	[4.0]	[4]	--	Range	1.7 - 2.6	1.40 - 2.13	1.56 - 3.04	1.86 - 2.27	Drinking water disinfectant added for treatment
Halooacetic Acids (f)	ppb	60	--	1.0	Highest RAA	2.3	1.94	2.59	2.05	By-product of drinking water disinfection
Total Trihalomethanes (f)	ppb	80	--	1.0	Range	6.0 - 3.7	6 - 18	6 - 10	0 - 8	By-product of drinking water chlorination

**SECONDARY STANDARDS--Aesthetic Standards**

Parameter	Units	200	600	50	Range	ND	ND	NA	NA	Erosion of natural deposits; residue from some water treatment process
Aluminum	ppb				Average	ND	ND	NA	NA	
Chloride	ppm	500	--	--	Range	105	45 - 59	31	NA	Runoff/leaching from natural deposits; seawater influence
Color	Units	15	--	--	Average	ND	ND	NA	NA	Naturally occurring organic materials
Manganese	ppb	50	--	20	Range	ND	ND - 50	ND	NA	Leaching from natural deposits
Odor Threshold	TON	3	--	1	Average	ND	0.5	ND	NA	Naturally occurring organic materials
Specific Conductance	µS/cm	1,600	--	--	Range	752	1070 - 1370	580	NA	Substances that form ions when in water; seawater influence
Sulfate	ppm	500	--	0.5	Range	98	306 - 443	133	NA	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids	ppm	1,000	--	--	Average	420	770 - 1020	330	NA	Runoff/leaching from natural deposits
Turbidity (monthly)	NTU	5	--	--	Range	ND	NA	0.75	NA	Soil runoff

**ADDITIONAL PARAMETERS (Unregulated)**

Parameter	Units	NS	--	--	Range	120	190 - 210	110	NA	
Alkalinity	ppm				Average	120	200	110	NA	
Boron	ppm	NL=1	--	0.1	Range	2	0.5 - 0.6	0.5	NA	
Calcium	ppm	NS	--	--	Range	36	122 - 132	44	NA	
Chlorate	ppb	NL=800	--	20	Average	ND	NA	NA	NA	
Corrosivity (g)	AI	NS	--	--	Range	12.1	0.5 - 0.7	12.1	NA	
Hardness (Total Hardness)	ppm	NS	--	--	Average	156	477 - 519	176	NA	
Magnesium	ppm	NS	--	--	Range	16	42 - 46	16	NA	
N-Nitrosodimethylamine (NDMA)	ppt	NL=10	--	--	Average	ND	NA	NA	NA	
pH	Units	NS	--	--	Range	8.1	7.6 - 7.8	8	NA	
Potassium	ppm	NS	--	--	Average	4.0	4 - 5	2	NA	
Radon	pCi/L	NS	--	100.0	Range	ND	162 - 314	NA	NA	
Sodium	ppm	NS	--	--	Average	81	77 - 83	51	NA	
Total Organic Carbon	ppm	TT	--	0.3	Range	1.8	ND - 1.5	NA	NA	
Iron	ppm	300	--	0.3	Average	ND	ND - 100	ND	NA	

**ABBREVIATIONS AND NOTES**

AI = Aggressiveness Index  
 AL = Federal Regulatory Action Level  
 DLR = Detection Limits for Purposes of Reporting  
 MCL = Maximum Contaminant Level  
 MCLG = Maximum Contaminant Level Goal  
 MFL = Million Fibers per Liter  
 µS/cm = MicroSiemens per Centimeter  
 MPN = Most Probable Number  
 MRDL = Maximum Residual Disinfectant Level  
 MRDLG = Maximum Residual Disinfectant Level Goal  
 NA = Not Analyzed  
 ND = None Detected  
 NL = Notification Level  
 NS = No Standard  
 NTU = Nephelometric Turbidity Units  
 pCi/L = PicoCuries per Liter  
 PHG = Public Health Goal  
 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 Picograms per Liter (pg/L)  
 RAA = Running Annual Average  
 TON = Threshold Odor Number  
 TT = Treatment Technique  
 CMWD (Calleguas) Calleguas Municipal Water District- Surface Water Source  
 UWCD (United) United Water Conservation District  
 BWRDF (Blended) Brackish Water Reclamation Demonstration Facility (BWRDF) - Samples taken after Calleguas and United sources were blended.

- (a) The turbidity level of the filtered water shall be less than or equal to 0.3 NTU in 95% of the measurements taken each month and shall not exceed 1.0 NTU at any time.
- (b) Total coliform MCLs: No more than 5.0% of the monthly samples may be total coliform positive (or 2 samples if a system collects less than 40 samples per month). Calleguas collects less than 40, Metropolitan collects greater than 40. Fecal coliform/E. coli MCLs: The occurrence of 2 consecutive total coliform positive samples, one of which containing fecal coliform/E. coli, constitutes an acute MCL violation. These MCLs were not violated in 2021.
- (c) The Metropolitan Water District treats their water by adding fluoride to the naturally occurring level in order to help prevent dental cavities in consumers. The fluoride levels in the treated water are maintained within a range of 0.6 - 1.2 ppm, as required by Department regulations.
- (d) The gross beta particle activity MCL is 4 millirem/year annual dose equivalent to the total body or any internal organ. The screening level is 50 pCi/L.
- (e) Compliance for treatment plants that use ozone is based on a running annual average of monthly samples. UWCD water is not subject to these requirements.
- (f) Compliance is based on a running annual average of quarterly distribution system samples.
- (g) AI measures the aggressiveness of water transported through pipes. Water with AI <10.0 is highly aggressive and would be very corrosive to almost all materials found in a typical water system. AI ≥ 12.0 indicates non-aggressive water. AI between 10.0 and 11.9 indicates moderately aggressive water.

## NOTES AND ABBREVIATIONS

CMWD (Calleguas) Calleguas Municipal Water District- Surface Water Source

UWCD (United) United Water Conservation District

BWRDF (Blended) Brackish Water Reclamation Demonstration Facility (BWRDF) - Samples taken after Calleguas and United sources were blended

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(c) The Metropolitan Water District treats their water by adding fluoride to the naturally occurring level in order to help prevent dental cavities in consumers. The fluoride levels in the treated water are maintained within a range of 0.6 - 1.2 ppm, as required by Department regulations.

(d) The gross beta particle activity MCL is 4 millirem/year annual dose equivalent to the total body or any internal organ. The screening level is 50 pCi/L.

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(f) Compliance is based on a running annual average of quarterly distribution system samples.

(g) AI measures the aggressiveness of water transported through pipes. Water with AI <10.0 is highly aggressive and would be very corrosive to almost all materials found in a typical water system. AI > 12.0 indicates non-aggressive water. AI between 10.0 and 11.9 indicates moderately aggressive water.

For additional information or questions regarding this report, please contact CIBCSD at (805) 985-6021.