Consumer Confidence Report

Data for January 1, 2022 through December 31, 2022



An Annual Drinking Water Quality Report Published June 2023



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A Public Agency Providing Water Wastewater Services **Recycled Water** Hydroelectricity **Elfin Forest Recreational Reserve**

Olivenhain Municipal Water District is required by law to distribute a Consumer **Confidence Report** each year.

This report explains how drinking water provided by OMWD meets or exceeds all state and federal water quality standards for your drinking water. Included within are an explanation of where your water comes from, results of water quality tests, and tips on how to interpret the data. The data presented is for January 1, 2022 through December 31, 2022. We are proud to share our results with you.



Your Water Sources

OMWD's raw water supply in 2022 was 100% imported. The imported raw water sources are the California State Water Project (Sacramento-San Joaquin Delta) and the Colorado River. These sources, supplying water to all of Southern California, rely on runoff from the Sierra snowpack and the Colorado River Basin. Both of these supplies are provided to OMWD from Metropolitan Water District of Southern California (MWD) and San Diego County Water Authority (SDCWA).



MWD maintains Lake Skinner, located in southwest Riverside County, as the untreated raw water source for San Diego County. Before water from the Lake Skinner source is delivered to you, it is treated to remove pollutants and bacteria. OMWD delivers water to your home or business that has been treated at its David C. McCollom Water Treatment Plant (DCMWTP).

David C. McCollom Water Treatment Plant

In 2022, approximately 92.16% of the water delivered to OMWD customers was treated locally at DCMWTP. The raw water received at DCMWTP is a blend of water from the Colorado River and the State Water Project. This raw water is obtained from SDCWA, which purchases it from MWD. The remaining percentage of treated water delivered to OMWD customers was purchased from SDCWA and treated at either the Twin Oaks Valley Water Treatment Plant or the Claude "Bud" Lewis Carlsbad Desalination Plant.

DCMWTP is located within the northeastern portion of OMWD's service area and uses membrane technology to produce superior quality finished water. The membrane process uses fewer chemicals than conventional treatment, and offers improved barriers against pathogens, such as Cryptosporidium, viruses, and bacteria, such as coliform. Public tours of DCMWTP may be available: visit www.olivenhain.com/events for details.



David C. McCollom Water Treatment Plant

What Is In My Water?

The tables on the following pages show how water quality for OWMD met healthrelated standards in 2022. The tables also show data specific to the treated water that flows through OMWD's distribution system, and where noted, raw water quality from the Lake Skinner water source. For information on the Lake Skinner source water and a source water assessment, please contact Paul Rochelle with MWD at **909-392-5155** or prochelle@mwdh2o.com. For information on SDCWA's water treatment plants, including the Twin Oaks Valley Water Treatment Plant or the Claude "Bud" Lewis Carlsbad Desalination Plant, please contact Chris Castaing with SDCWA at 760-233-3279 or ccastaing@sdcwa.org, or visit SDCWA's website at www.sdcwa.org/water-quality. For more information on OMWD's DCMWTP or distribution system, please contact OMWD's Operations Manager at 760-753-6466 or waterquality@olivenhain.com.

How Do Contaminants Get in the Water?

The raw sources of drinking water (both tap and bottled water alike) 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. It can also pick up substances resulting from the presence of animals and/or from human activity. Contaminants that may be present in raw 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 resulting from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming
- Pesticides and herbicides, which 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, which 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 US Environmental Protection Agency (USEPA) and California's State Water Resources Control Board (SWRCB) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. SWRCB regulations also establish limits for contaminants in bottled water that provide similar protection for public health.

OMWD is required to test every three years for lead and copper. OMWD tested for lead and copper in 2022; 31 locations were sampled, and the results, which were well below regulatory action levels, are provided in the table on page 6. Additional information about lead and copper is available at www.olivenhain.com/ **leadandcopper** and from the USEPA Safe Drinking Water Hotline, 800-426-4791.

In compliance with the SWRCB Drinking Water Permit Amendment 2017PA-SCHOOLS and Assembly Bill 746 (2017), OMWD tested seven school locations for lead in 2017, six schools in 2018, and one school performed lead testing in 2019. The action level of 15 ppb was not exceeded at any location. No schools requested testing in 2020, 2021, or 2022. Customers can request school lead testing results by contacting the Division of Drinking Water at DDW-PLU@ waterboards.ca.gov or 916-322-9602.

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. OMWD is responsible for providing highguality drinking water, but cannot control the variety of materials used in home 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 two 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 USEPA Safe Drinking Water Hotline, 800-426-4791, or at www.epa.gov/safewater/lead.

What About Lead and Copper?

Important Health Information

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, 800-426-4791

The trace contaminants found in OMWD's water sources, along with their standards, are listed in the tables found in this report. It is important to note that drinking water standards are based on research to protect the general public and may not be sufficient to protect certain persons, as noted below.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons, such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, as well as some elderly and infants can be particularly at risk for infections. These people should seek advice from their health care providers about drinking water. USEPA/Center for Disease Control guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the USEPA's Safe Drinking Water Hotline, 800-426-4791.

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ater Quality Data					OMWD's DCMWTP ^(a)			
neter	Units	State or Federal	PHG	State DLR	Range	Average	Major Sources in Drinking Water	
IPLIANCE MONITORING		MCL	(RDLG)	DLR				
GANIC CHEMICALS								
c (naturally occurring)	ppb	10	0.004	2	2.6	2.6	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes	
							Discharges of oil drilling wastes and from metal refineries; erosion of natura	
	ppm	1	2	0.1	0.11	0.11	deposits	
e (naturally occurring)	ppm	2.0	1	0.1	0.25-0.35	0.31	Erosion of natural deposits; discharge from fertilizer and aluminum factories	
(treatment-related)	ppm	2.0	1	0.1	0.32-0.84	0.69	Water additive that promotes strong teeth	
OGICALS								
	pCi/L	20	0.43	1	2.3	2.3	Erosion of natural deposits	
ned Filter Effluent Turbidity ^(b)	NTU	TT=1	NA	NA	Highest	% ≤ 0.3	Erosion of natural deposits; soil runoff	
		NTU			0.079	100%		
ARY STANDARDS – Aesthetic Standards		500			100	100		
	ppm Color	500	NA	NA	100	100	Runoff/leaching from natural deposits; seawater influence	
	Units	15	NA	NA	3	3	Naturally occurring organic materials	
shold ^{(a)(d)}	TON	3	NA	1	10	10	Naturally occurring organic materials	
nductance	µS/cm	1,600	NA	NA	910	910	Substances that form ions in water; seawater influence	
	ppm	500	NA	0.5	210	210	Runoff/leaching from natural deposits; industrial wastes	
olved Solids (TDS) ^(a)	ppm	1,000	NA	NA	534-641	588	Runoff/leaching from natural deposits	
)(d)	NTU	5	NA	0.1	1.0-7.0	4.0	Soil runoff	
ARAMETERS								
as CaCO ₃)	ppm	NA	NA	NA	120	120	Runoff/leaching of natural deposits; carbonate, bicarbonate, hydroxide, and occasionally borate, silicate, and phosphate	
	ppm	NA	NA	NA	69	69	Runoff/leaching from natural deposits	
n, Hexavalent	ppb	NA	0.02	NA	0.045	0.045	Runoff/leaching from natural deposits; discharge from industrial waste factories	
ess (as CaCO ₃) ^(a)	ppm	NA	NA	NA	249-285	267	Runoff/leaching from natural deposits; sum of polyvalent cations, generally magnesium and calcium present in the water	
ium	ppm	NA	NA	NA	25	25	Runoff/leaching from natural deposits	
	pH Units	NA	NA	NA	8.20	8.20	Inherent characteristic of water, naturally occuring	
1	ppm	NA	NA	NA	5.2	5.2	Salt present in the water; naturally occurring	
	ppm	NA	NA	NA	7.4	7.4	Naturally occurring	
	ppm	NA	NA	NA	100	100	Salt present in the water; naturally occurring	
	· ·							

Definitions

concentration of a contaminant ers treatment or other requirements t follow.

on arithmetic mean

Collom Water Treatment Plant

for purposes of) Reporting

(five)

ng Annual Average – The highest Verage of all samples collected

ninant Level – The highest level of owed in drinking water. Primary the PHGs as is economically and Secondary MCLs are set to protect earance of drinking water.

minant Level Goal – The level of water below which there is no o health. MCLGs are set by the US Agency.

ual Disinfectant Level

idual Disinfectant Level Goal

er District of Southern California

rbidity Units

I – The level of a contaminant in ch there is no known or expected set by the California Environmental

micrograms per liter

or milligrams per liter

verage – The highest RAA is the nual Averages calculated as average ed within a 12-month period.

n minimum and maximum values

unty Water Authority

esources Control Board

umber

e is a required process intended to taminant in drinking water and does values.

hanes

ntal Protection Agency

per centimeter; or micromhos per

Water Quality Data

				Distributio	on System								
Parameter	Units	State or Federal MCL [MRDL]	PHG (MCLG) [MRDL]	State DLR	Range	Average	Major Sources in Drinking Water						
PRIMARY STANDARDS – Mandatory Health-Related Standards													
MICROBIOLOGICAL													
<i>E. coli</i> (Acute Total Coliform) ^(e)	NA	(e)	(0)	NA	ND	ND	Human and animal fecal waste						
Total Coliform Bacteria ^(f)	NA	Π	NA	NA	ND	ND	Naturally present in the environment						
DISINFECTION BY-PRODUCTS AND DISINFECTANT RESIDUALS													
Haloacetic Acids (five) (HAA5) ^(g)	ppb	60	NA	1	5.9-10	Highest LRAA 8.9	By-product of drinking water chlorination						
Total Chlorine Residual	ppm	[4.0]	[4.0]	NA	0.77-3.29	Highest RAA 2.36	Drinking water disinfectant added for treatment						
Total Trihalomethanes (TTHM) ^(g)	ppb	80	NA	1	24.0-41.0	Highest LRAA 32	By-product of drinking water chlorination						
INORGANIC CHEMICALS													
Copper ^(h) 2022	ppm	AL=1.3	0.3	0.05	0.027-0.656	90th Percentile 0.417	Internal corrosion of plumbing systems; erosion of natural deposits						
Lead ^(h) 2022	ppb	AL=15	0.2	5	ND-6	90th Percentile 2	Internal corrosion of plumbing systems; erosion of natural deposits						
SECONDARY STANDARDS – Aesthetic Standards													
Color	Color Units	15	NA	NA	ND-1.0	0.05	Naturally occurring organic materials						
Odor Threshold	TON	3	NA	1	ND	ND	Naturally occurring organic materials						
Turbidity ^(c)	NTU	5	NA	NA	0.05-0.3	0.06	Soil runoff						

OMWD's

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Footnotes

- (a) Treated Effluent data from DCMWTP samples collected during January-December 2022, representing water supplied to the public. OMWD has also been granted the use of MWD source water data from Lake Skinner for compliance and reporting purposes by the SWRCB. Color, Odor Threshold, Turbidity, Total Dissolved Solids, Hardness, and pH data are source water data from Lake Skinner
- (b) Turbidity, a measure of the cloudiness of the water, is an indicator of treatment performance. As a Treatment Technique Standard, OMWD turbidity levels from the Combined Filter Effluent of the membranes were less than or equal to 0.1 NTU in 95% of the measurements taken each month and did not exceed 1.0 NTU at any time. OMWD collected 386 distribution samples; the system was in compliance with the Secondary Standard
- (c) State Secondary Standards for turbidity apply to water supplied to the public by community water systems; annual monitoring is required for approved surface water sources or distribution system entry points of the effluent of source water treatment.
- (d) Color, Odor Threshold, and Turbidity data in the table on page 4 are source water data from Lake Skinner and are not representative of treated water effluent at DCMWTP. Color, Odor Threshold, and Turbidity data are also collected in OMWD's distribution system and results were in compliance with the Secondary Standard, Distribution system Color, Odor Threshold, and Turbidity results are summarized in OMWD's Distribution System Water Quality table above.
- (e) E. coli-positive sample triggers MCL violation. E. coli MCL violation triggers Level 2 TT assessments. No samples were E. coli-positive and no Level 2 assessments were required.
- ^(f) More than 5.0% total coliform-positive samples in a month triggers Level 1 assessments. No Level 1 assessments or violations occurred.
- (9) TTHM and HAA5 results for OMWD's distribution system are provided. OMWD was in compliance with all provisions of the Stage 2 Disinfectants/Disinfection By-Products Rule based on the Highest I RAA
- (b) Lead and Copper are regulated as a Treatment Technique under the Lead and Copper Rule, which requires water samples to be collected at the consumers' taps. OMWD is required to test every three years for Lead and Copper. If action levels are exceeded in more than 10% of consumer tap samples, water systems must take steps to reduce these contaminants. OMWD collected samples at 30 locations in 2022; results are provided.

See nage 5 for Abbreviations and Definitions

About OMWD



OMWD is a municipal water district organized and operating pursuant to Water Code Sections 71000 et seq., and was incorporated on April 9, 1959 to develop an adequate water supply for landowners and residents. On June 14, 1960, residents of OMWD voted to become a member of SDCWA, thus becoming eligible to purchase water transported into San Diego County via the aqueduct systems of SDCWA and MWD. At over 48 square miles, OMWD serves approximately 87,000 customers in Encinitas, Carlsbad, San Diego, Solana Beach, and neighboring communities.

We Encourage You to Get Involved

OMWD is governed by a five-member Board of Directors elected for staggered four-year terms, with each director being elected from a specific geographic area of OMWD's service area. Board members encourage public participation in decisions affecting our community's drinking water and any other water related issues. The public is welcome to attend board meetings. Please check OMWD's website at www.olivenhain.com/meetings for current information, as dates and times of board meetings vary.

For Additional Information

For more information on this report, contact OMWD's Operations Manager at 760-753-6466 or waterquality@olivenhain.com.

Este informe contiene información muy importante sobre su agua potable. Si tiene preguntas, llame al 760-753-6466.



Municipal Water District

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www.olivenhain.com

Published by Olivenhain Municipal Water District in the interest of an informed public.

Board of Directors

Christy Guerin, President Matthew R. Hahn, Vice President Neal Meyers, Treasurer Lawrence A. Watt, Secretary Marco San Antonio, Director

> **General Manager** Kimberly A. Thorner, Esq.

General Counsel Alfred Smith, Esq.

Board Meeting Dates

Please visit our website at www.olivenhain.com/meetings for dates.

Mission Statement

Olivenhain Municipal Water District is a multi-functioning public agency that is dedicated and committed to serving present and future customers in a service-oriented manner by:

Water

Providing safe, reliable, high-quality drinking water while exceeding all regulatory requirements in a cost-effective and environmentally responsive manner.

Recycled Water

Providing recycled water and wastewater treatment in the most cost-effective and environmentally responsive method.

Parks

Safely operating the Elfin Forest Recreational Reserve and providing all users with a unique recreational, educational, and environmental experience.

Emergency Management

Complying with policies and procedures that adhere to local, state, and federal quidelines for national security and disaster preparedness.

Sustainable Operations

Pursuing alternative and/or renewable resources with the most sustainable. efficient, and cost-effective approach.

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Municipal Water District

A Public Agency Providing: Water • Wastewater Services • Recycled Water • Hydroelectricity • Elfin Forest Recreational Reserve