



CITY OF  
HUNTINGTON  
BEACH  
UTILITIES  
DIVISION

# 2024 Water Quality Report

*Covering  
the reporting period of  
January to December  
2023*

# Your 2024 Water Quality Report

Since 1990, California public and private water utilities have been providing an annual Drinking Water Quality Report to their customers. **This year's report covers all drinking water quality testing performed in calendar year 2023.**

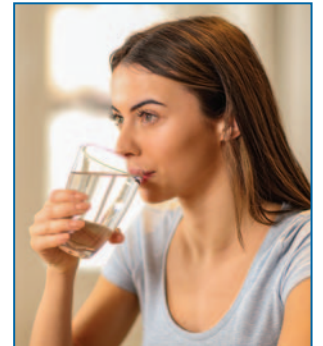
The City of Huntington Beach Public Works Utilities Division vigilantly safeguards your water supply and, as in years past, the water delivered to your home or business meets all drinking water quality standards required by federal and state regulatory agencies. The U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board, Division of Drinking Water (DDW) are the agencies responsible for establishing and enforcing drinking water quality standards in the State of California.

In some cases, the City goes beyond what is required by testing for unregulated chemicals that may have known health risks, but do not have drinking water standards. In addition, the Orange County Water District (OCWD), which manages the groundwater basin, and the Metropolitan Water District of Southern



Whitsett Intake Pumping Plant on the Colorado River.

California (MWDSC), which supplies treated imported surface water to the City, also test for regulated and unregulated chemicals in our water supply. Monitoring for unregulated chemicals helps USEPA and DDW determine where certain chemicals occur and whether new standards need to be established for those chemicals in order to protect public health.



Your drinking water is constantly monitored from source to tap for regulated and unregulated constituents through drinking water quality testing programs carried out by OCWD for groundwater, MWDSC for treated imported surface water and the Huntington Beach Utilities Division at the City's groundwater wells, reservoirs, and distribution system.

The State allows us to monitor for some chemicals less than once per year because the concentrations of these chemicals do not change frequently. Some of our data, though representative, may be more than one year old.

◆  
This report contains important information about your drinking water.  
If you do not understand it, speak with someone who can explain it.

◆  
*Este informe contiene información muy importante sobre su agua potable. Para más información ó traducción, favor de contactar a Customer Service Representative. Telefono: (714) 536-5921.*

## Quality Water is Our Priority

Turn the tap and the water flows, as if by magic. Or so it seems. The reality is considerably different, however. Delivering high-quality drinking water to our customers is a scientific and engineering feat that requires considerable effort and talent to ensure the water is always available to drink.

Because tap water is highly regulated by state and federal laws, water treatment and distribution operators must be licensed and are required to complete on-the-job training and technical education before becoming a state certified operator.

Our licensed water professionals have an understanding of a wide range of subjects, including mathematics, biology, chemistry, physics, and engineering. Some of the tasks they complete on a regular basis include:

- ◆ Operating and maintaining equipment to maintain water quality;
- ◆ Monitoring and inspecting machinery, meters, gauges, and operating conditions;
- ◆ Conducting tests and inspections on water and evaluating the results;
- ◆ Documenting and reporting test results and system operations to regulatory agencies; and
- ◆ Serving our community through customer support, education, and outreach.

So, the next time you turn on your faucet, think of the skilled professionals who stand behind every drop.





# Constant Monitoring Ensures Continued Excellence

Through drinking water quality testing programs carried out by the Orange County Water District (OCWD) for groundwater, the Metropolitan Water District of Southern California (MWDSC) for treated surface water and the City of Huntington Beach for the water distribution system, your drinking water is constantly monitored from source to tap for constituents that are regulated and unregulated.

## Sources of Supply

The City's water supply is a blend of groundwater from eight City wells, and locally treated imported water originating from northern California and the Colorado River by MWDSC via the Municipal Water District of Orange County (MWDOC) through three imported water connections. Groundwater comes from a natural underground aquifer that is replenished with water from the Santa Ana River, local rainfall, Groundwater Replenishment System (GWRS) recycled water, and imported water. The groundwater basin, which is managed by OCWD, is about 350 square miles. It lies beneath north and central Orange County, from Irvine to the Los Angeles County border and from Yorba Linda to the Pacific Ocean. More than 19 cities and retail water districts draw from the basin to provide water to homes and businesses.

In 2023, City of Huntington Beach source water consisted of 85% local groundwater and 15% imported treated surface water. Huntington Beach also has emergency water connections with the neighboring cities of Fountain Valley, Seal Beach, and Westminster.

## Orange County's Water Future

For years, Orange County has enjoyed an abundant, seemingly endless supply of high-quality water. However, as water demand continues to increase statewide, we must be even more conscientious about our water supply and maximize the efficient use of this precious natural resource.



OCWD implements and operates new and innovative water management and supply development programs, including water recycling, wetlands and recharge facility expansion, groundwater cleanup projects, storage programs, and water education programs for children through adults. MWDOC offers rebates and incentives to promote water-use efficiency and provides water education programs. Both agencies work cooperatively with Orange County retail water agencies to complete studies to assess water reliability in Orange County. These efforts are helping to enhance long-term countywide water



reliability and water quality and a healthy water future for Orange County.

Your local and regional water agencies are committed to making the necessary investments in new water management projects today to ensure an abundant and high-quality water supply for generations to come.

## Basic Information About Drinking Water Contaminants

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and underground aquifers. As water travels over the surface of the land, or through the layers of the earth, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animal and human activity.

Contaminants that may be present in source water include:

- **Microbial contaminants**, such as viruses and bacteria, may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- **Pesticides and herbicides** may come from a variety of sources such as agriculture, urban stormwater runoff and residential uses.
- **Inorganic contaminants**, such as salts and metals, can be naturally occurring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining and farming.
- **Radioactive contaminants** can be naturally occurring or the result of oil and gas production or mining activities.
- **Organic chemical contaminants**, including synthetic and volatile organic chemicals, are by-products of industrial processes and petroleum production, and can also come from gasoline stations, urban stormwater runoff, agricultural use and septic systems.



In order to ensure that tap water is safe to drink, USEPA and the DDW 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 must provide the same protection for public health. 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 at (800) 426-4791, or visit: [www.epa.gov/safewater](http://www.epa.gov/safewater).

# We Comply with All State & Federal Water Quality Regulations

## Disinfectants and Disinfection Byproducts

Disinfection of drinking water was one of the major public health advances in the 20<sup>th</sup> century. Disinfection was a major factor in reducing waterborne disease epidemics caused by pathogenic bacteria and viruses, and it remains an essential part of drinking water treatment today.

Chlorine disinfection has almost completely eliminated the risks of microbial waterborne diseases from our lives. Chlorine is added



to your drinking water at the source of supply (ground-water well or surface water treatment plant). Enough chlorine is added so that it does not completely dissipate as it travels through the water distribution system. This “residual” chlorine helps to prevent the

growth of bacteria in the pipes that carry drinking water from the source into your home or business.

However, chlorine can react with naturally-occurring materials in the water to form unintended chemical byproducts, called disinfection byproducts (DBPs), which may pose health risks. A major challenge is how to balance the risks from microbial pathogens and DBPs. It is important to provide protection from these microbial pathogens while simultaneously ensuring decreasing health risks from disinfection byproducts. The Safe Drinking Water Act requires the USEPA to develop rules to achieve these goals.

Trihalomethanes (THMs) and Haloacetic Acids (HAAs) are the most common and most studied DBPs found in drinking water treated with chlorine. In 1979, the USEPA set the maximum amount of total THMs allowed in drinking water at 100 parts per billion as an annual running average. In January 2002, the Stage 1 Disinfectants / Disinfection Byproducts Rule lowered the total THM maximum annual average level to 80 parts per billion and added HAAs to the list of regulated chemicals in drinking water. Your drinking water complies with the Stage 1 Disinfectants / Disinfection Byproducts Rule.

Stage 2 of the regulation was finalized by USEPA in 2006, which further controls allowable levels of DBPs in drinking water without compromising disinfection itself. A required distribution system evaluation was completed in 2008 and a Stage 2 monitoring plan has been approved by DDW. Full Stage 2 compliance began in 2012.

## Chloramines

Huntington Beach receives imported water from MWDSC which produces water that is treated with chloramines, a combination of chlorine and ammonia, as its drinking water disinfectant.

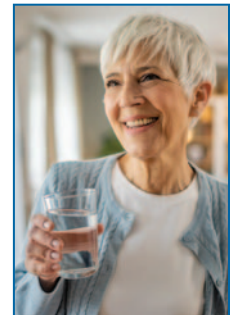
Chloramines are effective killers of bacteria and other microorganisms that may cause disease. Chloramines form fewer disinfection by-products than chlorine and have no odor when used properly. People who use kidney dialysis machines at home may want to take special precautions and consult their physician for the appropriate type of water treatment. Customers who maintain fish ponds, tanks or aquaria should also make necessary adjustments in water quality treatment, as chloramines are toxic to fish.

For further information please visit the USEPA webpage at [www.epa.gov/dwreginfo/chloramines-drinking-water](http://www.epa.gov/dwreginfo/chloramines-drinking-water).



## Immunocompromised People

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised people, such as those with cancer who are undergoing chemotherapy, persons who have had organ transplants, people with HIV/AIDS or other immune system disorders, some elderly persons and infants can be particularly at risk to infections. These people should seek advice about drinking water from their health care providers.



## How May We Help You?

For information or concerns about this report, or your water quality in general, please contact Jennifer Reyes at (714) 375-5061, or by e-mail at [jennifer.reyes@surfcity-hb.org](mailto:jennifer.reyes@surfcity-hb.org).

You may also address your concerns at the regularly scheduled City Council meetings held at City Hall at 2000 Main Street in Huntington Beach on the first and third Tuesdays of each month at 6:00 p.m. in the City Hall Council Chambers, or at the monthly Public Works Commission meeting held on the third Wednesday of every month at 5:00 p.m. (refer to the City website — [www.huntingtonbeachca.gov/](http://www.huntingtonbeachca.gov/) — for location). Please feel free to participate in these meetings. The City firmly believes in the public's right to know as much as possible about the quality of their drinking water. Your input and concerns are very important to us.

For more information about the health effects of the listed contaminants in the following tables, call the USEPA Safe Drinking Water Hotline at (800) 426-4791, or on the web at: [www.epa.gov/safewater](http://www.epa.gov/safewater).

## About Lead in Tap Water

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 water service lines and home plumbing.

The City of Huntington Beach Utilities Division 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 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 EPA Lead Info Center Hotline at (800) 424-5323, or visit: [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead).



## Fluoridation

Fluoride occurs naturally in Huntington Beach's water supplies. In addition to the natural levels, the City adds a small amount of fluoride to the water to promote dental benefits per a majority vote of the community during the early 1970s.

Fluoridation's primary benefit is to help prevent tooth decay in children. Because of the dramatic health benefits of fluoridating drinking water, a 1997 Assembly Bill of the State of California mandated all large system water suppliers to begin fluoridating their systems.



The City's water is fluoridated to the DDW optimal levels within a range of 0.6 to 1.2 parts per million (ppm).

For additional information about the fluoridation of drinking water, please visit:



**U.S. Centers for Disease Control and Prevention**

[www.cdc.gov/fluoridation/](http://www.cdc.gov/fluoridation/)

**State Water Resources Control Board, Division of Drinking Water**

[www.waterboards.ca.gov/drinking\\_water/certlic/drinkingwater/Fluoridation.html](http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Fluoridation.html)

## Chart Legend

### What are Water Quality Standards?

Drinking water standards established by USEPA and DDW set limits for substances that may affect consumer health or aesthetic qualities of drinking water. The charts in this report show the following types of water quality standards:

- **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.
- **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.
- **Secondary MCLs** are set to protect the odor, taste, and appearance of drinking water.
- **Primary Drinking Water Standard:** MCLs for contaminants that affect health along with their monitoring and reporting requirements and water treatment requirements.
- **Regulatory Action Level (AL):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

### What is a Water Quality Goal?

In addition to mandatory water quality standards, USEPA and DDW have set voluntary water quality goals for some contaminants. Water quality goals are often set at such low levels that they are not achievable in practice and are not directly measurable. Nevertheless, these goals provide useful guideposts and direction for water management practices. The charts in this report include three types of water quality goals:

- **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 USEPA.
- **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.
- **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.

### How are Contaminants Measured?

Water is sampled and tested throughout the year. Contaminants are measured in:

- parts per million (ppm) or milligrams per liter (mg/L)
- parts per billion (ppb) or micrograms per liter (µg/L)
- parts per trillion (ppt) or nanograms per liter (ng/L)



## 2023 City of Huntington Beach Drinking Water Quality Local Groundwater and Metropolitan Water District Treated Surface Water

Chemical	MCL	PHG (MCLG)	Average Local Groundwater	Average MWD Surface Water	Range of Detections	MCL Violation?	Typical Source of Contaminant
<b>Radiologicals – Tested in 2023</b>							
Alpha Radiation (pCi/L)	15	(0)	ND	ND	ND – 5	No	Erosion of Natural Deposits
Beta Radiation (pCi/L)	50	(0)	NR	ND	ND – 6	No	Decay of Natural and Man-made Deposits
Uranium (pCi/L)	20	0.43	2.8	1	ND – 6.1	No	Erosion of Natural Deposits
<b>Inorganic Chemicals – Tested in 2023</b>							
Aluminum (ppm)	1	0.6	ND	0.105	ND – 0.07	No	Treatment Process Residue, Natural Deposits
Arsenic (ppb)	10	0.004	ND	ND	ND – 2.8	No	Treatment Process Residue, Natural Deposits
Barium (ppm)	1	2	ND	ND	ND – 0.117	No	Refinery Discharge, Erosion of Natural Deposits
Bromate (ppb)	10	0.1	NR	ND	ND – 6.3	No	Byproduct of Drinking Water Ozonation
Fluoride (ppm) naturally-occurring	2	1	0.42	NR	0.3 – 0.62	No	Erosion of Natural Deposits
Fluoride (ppm) treatment-related*	2	1	0.8	0.7	0.44 – 0.95	No	Water Additive for Dental Health
Nitrate as N (ppm)	10	10	ND	0.7	ND – 0.79	No	Agriculture Runoff and Sewage
Nitrate and Nitrite as N (ppm)	10	10	ND	0.7	ND – 0.79	No	Agriculture Runoff and Sewage
<b>Secondary Standards** – Tested in 2023</b>							
Aluminum (ppb)	200**	600	ND	105	ND – 70	No	Treatment Process Residue, Natural Deposits
Chloride (ppm)	500**	n/a	66	66	13 – 373	No	Runoff or Leaching from Natural Deposits
Color (color units)	15**	n/a	ND	2	ND – 2	No	Naturally-occurring Organic Materials
Manganese (ppb)	50**	n/a	50	ND	ND – 60***	No	Runoff or Leaching from Natural Deposits
Odor (threshold odor number)	3**	n/a	0.03	2	ND – 2	No	Naturally-occurring Organic Materials
Specific Conductance (µmho/cm)	1,600**	n/a	1,011	642	335 – 1,670***	No	Substances that Form Ions in Water
Sulfate (ppm)	500**	n/a	54	122	24 – 175	No	Runoff or Leaching from Natural Deposits
Total Dissolved Solids (ppm)	1,000**	n/a	352	394	204 – 700	No	Runoff or Leaching from Natural Deposits
Turbidity (NTU)	5**	n/a	0.09	ND	ND – 0.35	No	Runoff or Leaching from Natural Deposits
Zinc (ppm)	5**	n/a	0.001	ND	ND – 0.052	No	Runoff or Leaching from Natural Deposits
<b>Unregulated Chemicals – Tested in 2023</b>							
Alkalinity, total as CaCO <sub>3</sub> (ppm)	Not Regulated	n/a	150	84	66 – 195	n/a	Runoff or Leaching from Natural Deposits
Boron (ppm)	NL = 1	n/a	0.05	0.13	ND – 0.14	n/a	Runoff or Leaching from Natural Deposits
Calcium (ppm)	Not Regulated	n/a	61	38	21 – 132	n/a	Runoff or Leaching from Natural Deposits
Hardness, total as CaCO <sub>3</sub> (ppm)	Not Regulated	n/a	188	160	60 – 419	n/a	Runoff or Leaching from Natural Deposits
Hardness, total (grains/gallon)	Not Regulated	n/a	11	9.4	3.5 – 25	n/a	Runoff or Leaching from Natural Deposits
Magnesium (ppm)	Not Regulated	n/a	9.1	15	1.7 – 22	n/a	Runoff or Leaching from Natural Deposits
Perfluoro Hexane Sulfonic Acid (ppt)	NL = 3	n/a	ND	ND	ND – 3.5	n/a	Industrial Discharge
Perfluoro Octane Sulfonic Acid (ppt)	NL = 6.5	n/a	ND	ND	ND – 6.1	n/a	Industrial Discharge
pH (pH units)	Not Regulated	n/a	8	8.5	7.8 – 8.5	n/a	Hydrogen Ion Concentration
Potassium (ppm)	Not Regulated	n/a	2.7	3.4	1.7 – 4.4	n/a	Runoff or Leaching from Natural Deposits
Sodium (ppm)	Not Regulated	n/a	51	69	39 – 91	n/a	Runoff or Leaching from Natural Deposits
Total Organic Carbon (ppm)	TT	n/a	0.1	2.4	ND – 3	n/a	Various Natural and Man-made Sources
Vanadium (ppb)	NL = 50	n/a	1.4	3.1	ND – 6.9	n/a	Runoff or Leaching from Natural Deposits

ppb = parts-per-billion; ppm = parts-per-million; pCi/L = picoCuries per liter; NTU = nephelometric turbidity units; µmho/cm = micromhos per centimeter; ND = not detected;

MCL = Maximum Contaminant Level; (MCLG) = Federal MCL Goal; PHG = California Public Health Goal; NL = Notification Level; n/a = not applicable; TT = treatment technique; NR = Not Required to be analyzed

\*The City of Huntington Beach and the Metropolitan Water District of Southern California add fluoride to the naturally-occurring levels in order to help prevent dental cavities.

The fluoride level in the treated water is maintained within an optimal range of 0.6 to 1.2 as required by the State Water Resources Control Board, Division of Drinking Water regulations.

\*\*Contaminant is regulated by a secondary standard.

\*\*\*The affected well exceeding the secondary standard was subsequently turned off; the average is the running annual average, which is within the secondary standard.

Turbidity – combined filter effluent Metropolitan Water District Diemer Filtration Plant	Treatment Technique	Turbidity Measurements	TT Violation?	Typical Source of Contaminant
1) Highest single turbidity measurement (NTU)	0.3	0.08	No	Soil Runoff
2) Percentage of samples less than or equal to 0.3 NTU	95%	100%	No	Soil Runoff

Turbidity is a measure of the cloudiness of the water, an indication of particulate matter, some of which might include harmful microorganisms.

NTU = nephelometric turbidity units

Low turbidity in Metropolitan's treated water is a good indicator of effective filtration. Filtration is called a "treatment technique" (TT).

A treatment technique is a required process intended to reduce the level of chemicals in drinking water that are difficult and sometimes impossible to measure directly.

### Unregulated Chemicals Requiring Monitoring

Chemical	Notification Level	PHG	Average Local Groundwater	Average MWD Surface Water	Range of Detections	Most Recent Sampling Date
Bromide (ppm)	n/a	n/a	0.30	NR	0.076 – 0.79	2019
Germanium (ppb)	n/a	n/a	ND	ND	ND – 0.4	2019
Lithium (ppb)	n/a	n/a	ND	20	ND – 36	2023
Manganese (ppb)***	50*	n/a	11	1.7	0.8 – 20	2019
Total Organic Carbon (Unfiltered) (ppm)	n/a	n/a	0.23	NR	0.06 – 0.43	2019

\*\*\*Manganese was included as part of the unregulated chemicals requiring monitoring.

## 2023 City of Huntington Beach Distribution System Water Quality

Disinfection Byproducts	MCL (MRDL/MRDLG)	Average Amount	Range of Detections	MCL Violation?	Typical Source of Contaminant
Total Trihalomethanes (ppb)	80	50	4 – 63	No	Byproducts of chlorine disinfection
Haloacetic Acids (ppb)	60	17	ND – 27	No	Byproducts of chlorine disinfection
Chlorine Residual (ppm)	(4 / 4)	0.97	0.7 – 1.1	No	Disinfectant added for treatment
<b>Aesthetic Quality</b>					
Color (color units)	15*	<5	ND – 10	No	Erosion of natural deposits
Odor (threshold odor number)	3*	1	ND – 3	No	Naturally-occurring Organic Materials
Turbidity (NTU)	5*	0.14	0.04 – 1.09	No	Erosion of natural deposits

Eight locations in the distribution system are tested quarterly for total trihalomethanes and haloacetic acids; eleven locations are tested weekly for color, odor, and turbidity.

**MRDL** = Maximum Residual Disinfectant Level; **MRDLG** = Maximum Residual Disinfectant Level Goal

\*Contaminant is regulated by a secondary standard to maintain aesthetic qualities (taste, odor, color).

## Lead and Copper Action Levels at Residential Taps

	Action Level (AL)	Public Health Goal	90 <sup>th</sup> Percentile Value	Sites Exceeding AL / Number of Sites	AL Violation?	Typical Source of Contaminant
Lead (ppb)	15	0.2	ND	1 out of 54	No	Corrosion of household plumbing
Copper (ppm)	1.3	0.3	0.4	0 out of 54	No	Corrosion of household plumbing

Every three years, at least 50 selected residences are tested for lead and copper at-the-tap. The most recent set of 54 samples was collected in 2021.

Lead was detected in 5 samples, one of which exceeded the regulatory lead action level (AL). Copper was detected in 37 samples, none of which exceeded the copper AL.

A regulatory action level is the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

## Unregulated Chemicals Requiring Monitoring in the Distribution System

Chemical	Notification Level	PHG	Average Amount	Range of Detections	Most Recent Sampling Date
Bromochloroacetic Acid (ppb)	n/a	n/a	3.5	1.7 – 5.1	2019
Bromodichloroacetic Acid (ppb)	n/a	n/a	1.6	0.8 – 2.6	2019
Chlorodibromoacetic Acid (ppb)	n/a	n/a	1.5	0.8 – 3.6	2019
Dibromoacetic Acid (ppb)	n/a	n/a	2.1	1.2 – 5.4	2019
Dichloroacetic Acid (ppb)	n/a	MCLG = 0	3.6	1.1 – 5.2	2019
Monobromoacetic Acid (ppb)	n/a	n/a	ND	ND – 0.5	2019
Tribromoacetic Acid (ppb)	n/a	n/a	ND	ND – 2.7	2019
Trichloroacetic Acid (ppb)	n/a	MCLG = 20	1.4	0.8 – 2.1	2019

## Source Water Assessments

### Imported (MWDSC) Water Assessment

Every five years, MWDSC is required by DDW to examine possible sources of drinking water contamination in its State Water Project and Colorado River source waters.

The most recent surveys for MWDSC's source waters are the

Colorado River Watershed Sanitary Survey – 2020 Update, and the State Water Project Watershed Sanitary Survey – 2021 Update.



Water from the Colorado River is considered to be most vulnerable to

contamination from recreation, urban/stormwater runoff, increasing urbanization in the watershed, and wastewater. Water supplies from Northern California's State Water Project are most vulnerable to contamination from urban/stormwater runoff, wildlife, agriculture, recreation, and wastewater.

USEPA also requires MWDSC to complete one Source Water Assessment (SWA) that utilizes information collected in the watershed sanitary survey. MWDSC completed its SWA in

December 2002. The SWA is used to evaluate the vulnerability of water sources to contamination and helps determine whether more protective measures are needed.

A copy of the most recent summary of either Watershed Sanitary Survey or the SWA can be obtained by calling MWDSC at (800) CALL-MWD (225-5693).

### Groundwater Assessment

An assessment of the groundwater sources for Huntington Beach was completed in December, 2002



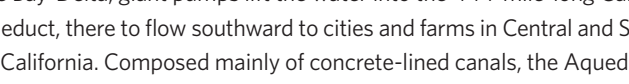
The groundwater sources are considered most vulnerable to the following activities not associated with detected contaminants: dry cleaners, electrical/electronic manufacturing, gas stations, known contaminant plumes, metal plating, finishing, or fabricating, military installations and plastics/synthetics producers.

You may request a summary of the assessment by contacting the Water Quality Supervisor at (714) 536-5921.


## A close-up photograph of a young boy with dark hair and eyes, smiling as he drinks water from a fountain. The water is captured mid-splash, creating a dynamic and refreshing visual. The background is a soft-focus green, suggesting an outdoor park setting.

A large blue pipe runs diagonally across the frame, leading towards a pumping station on a hillside. The sky is blue with some clouds. A play button icon is in the top left corner.

**THE GENE PUMPING STATION  
ON THE COLORADO AQUEDUCT**



From the Bay-Delta, giant pumps lift the water into the 444-mile-long California Aqueduct, there to flow southward to cities and farms in Central and Southern California. Composed mainly of concrete-lined canals, the Aqueduct also includes over 20 miles of tunnels, more than 130 miles of pipelines, and 27 miles of siphons. Along the way, the water is pumped 2,882 feet over the Tehachapi Mountains. The Edmonston Pumping Plant alone lifts millions of gallons a day up 1,926 feet, the highest single water lift in the world.

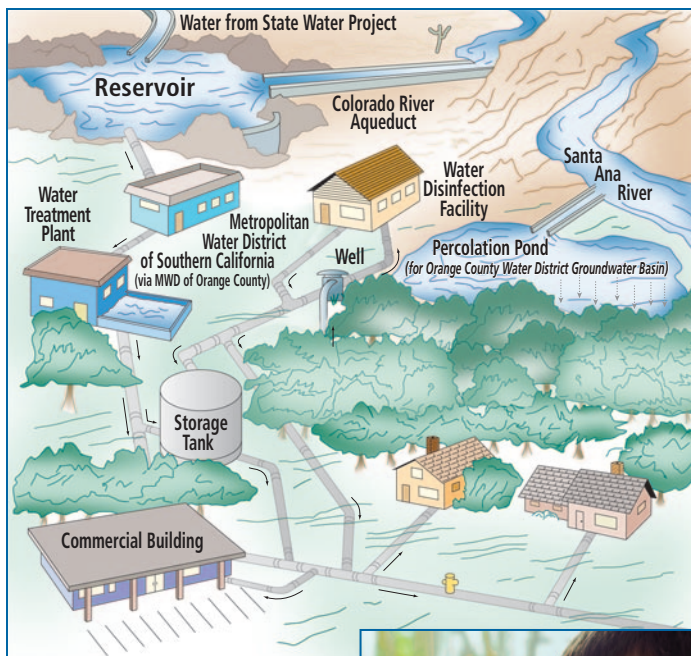


**THE CHRISMAN PUMPING PLANT  
ON THE CALIFORNIA AQUEDUCT**

## THE CHRISMAN PUMPING PLANT ON THE CALIFORNIA AQUEDUCT

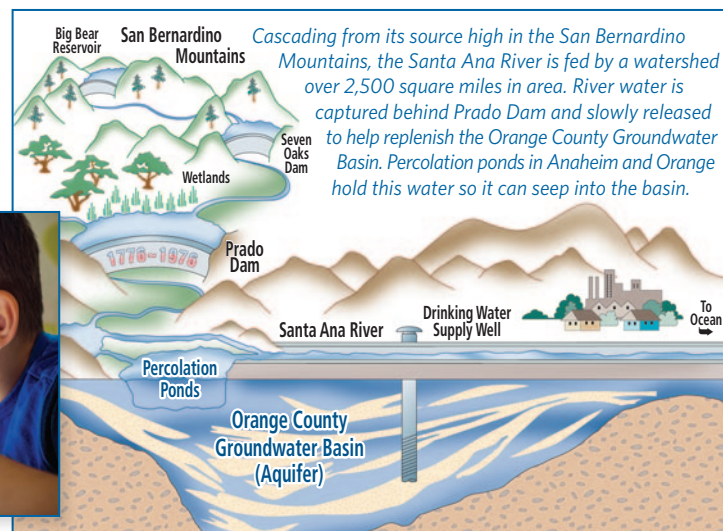
A map of Southern California showing the route of the Colorado Aqueduct. The aqueduct is depicted as a thick line that starts in the northeast, near the Colorado River, and winds its way westward. It is colored red in the northern section and orange in the southern section. Key locations marked along the route include Lake Perris, Lake Mathews, and Lake Castaic. Major cities shown are BAKERSFIELD, LOS ANGELES, and SAN DIEGO. Specific pumping stations are labeled: Chrisman Pumping Plant, Edmonston Pumping Plant, and Gene Pumping Station. Other features include Pyramid Lake, Silverwood Lake, and Lake Isabella. The map also shows the Pacific Ocean to the west and the Colorado River to the east. An inset photograph in the top right corner shows a close-up of a large concrete dam structure with water behind it.





## How Does Our Water Get to Us?

Importing water from hundreds of miles away is only the start to providing you clean, fresh water. Once the water is in the southland, the Metropolitan Water District of Southern California, in partnership with the Municipal Water District of Orange County, treats and pumps the water to individual cities throughout Orange County. The Orange County Water District, which manages the groundwater basin beneath Central and Northern Orange County, ensures the quality and supply of groundwater throughout its service area. The City of Huntington Beach sits atop the county aquifer and draws water from this local source, then blends it with the imported surface water.



The City of Huntington Beach Utilities Division vigorously works to ensure the safety of your drinking water and, in conjunction with MWDSC and OCWD, continuously monitors the water to verify adherence with drinking water regulations.



## Spotlight on the Groundwater Replenishment System

The Groundwater Replenishment System (GWRS) is a joint project of the Orange County Water District and the Orange County Sanitation District. The GWRS is the world's largest water purification system for indirect potable reuse. Every day, this state-of-the-art water purification project can produce up to 100 million gallons of high-quality water that meets or exceeds all state and federal drinking water standards. This helps decrease Southern California's dependence on imported water from the Sacramento-San Joaquin River Delta and the Colorado River.

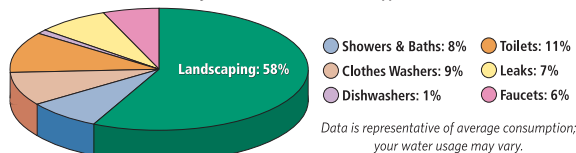
While other Southern California counties rely mostly on imported water supplies to meet their water needs, Orange County does not. We have a vast groundwater aquifer basin from which we draw a substantial amount of our water. And the GWRS helps supply about 30 percent of the water that refills the basin each year. The GWRS is leading the way in water recycling, creating a locally-controlled, reliable supply of high-quality water that is drought-resilient. For more information visit [www.ocwd.com/gwrs/](http://www.ocwd.com/gwrs/).



## Where Do We Use Water the Most?

Outdoor watering of lawns and gardens makes up approximately 60% of home water use. By reducing your outdoor water use — by either cutting back on irrigation or planting more drought tolerant landscaping — you can dramatically reduce your overall water use.

Save the most where you use the most:  
Make your outdoor use efficient.



## Where Can You Learn More?

There's a wealth of information on the internet about Drinking Water Quality and water issues in general. Some good sites to begin your own research are:

**Metropolitan Water District of So. California:** [www.mwdh2o.com](http://www.mwdh2o.com)

**California Department of Water Resources:** [www.water.ca.gov](http://www.water.ca.gov)

**The Water Education Foundation:** [www.watereducation.org](http://www.watereducation.org)

To learn more about **Water Conservation & Rebate Information:**  
[www.bewaterwise.com](http://www.bewaterwise.com) • [www.ocwatersmart.com](http://www.ocwatersmart.com)

And to see the Aqueducts in action, checkout these two videos:

**Wings Over the State Water Project:** [youtu.be/8A1v1Rr2neU](https://youtu.be/8A1v1Rr2neU)

**Wings Over the Colorado Aqueduct:** [youtu.be/KipMQh5t0f4](https://youtu.be/KipMQh5t0f4)



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