



**CITY OF FOUNTAIN VALLEY**  
A NICE PLACE TO LIVE



LET'S GET  
SMART ABOUT WATER



City of  
**Fountain Valley**  
PUBLIC WORKS DEPARTMENT

## 2016 Water Quality Report



# Your 2016 Water Quality Report

Since 1990, California public water utilities have been providing an annual Water Quality Report to their customers. **This year's report covers calendar year 2015 drinking water quality testing and reporting.**

The City of Fountain Valley Water Department (City) vigilantly safeguards your water supply and, as in years past, the water delivered to your home meets or exceeds the 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.

Pursuant to the California Safe Drinking Water Act, the City monitors over 100 chemicals in your water supply. This report includes only the chemicals



actually detected in the water. 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. Unregulated chemical monitoring helps USEPA and DDW determine where certain chemicals occur and whether new standards need to be established for those chemicals to protect public health.

Through drinking water quality testing programs carried out by OCWD for groundwater, MWDSC for treated surface water and the City for the water distribution system, your drinking water is constantly monitored from source to tap for constituents that are regulated and unregulated.

The State allows us to monitor for some constituents less than once per year because the concentrations of these constituents do not change frequently.

Some of our data, though representative of current conditions, are more than one year old.

# The Quality of Your Water is Our Primary Concern

## Sources of Supply

The City's water supply is a blend of groundwater from six City wells and one imported water connection originating from Northern California and the Colorado River by the Municipal Water District of Orange County (MWDOC) via MWDSC. Groundwater comes from a natural underground aquifer that is replenished with water from the Santa Ana River, local rainfall, recycled Groundwater Replenishment System (GWRS) water, and imported water. The groundwater basin is 350 square miles and 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 20 cities and retail water districts draw from the basin to provide water to homes and businesses.

## 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 and MWDOC work cooperatively to evaluate new and innovative water management and supply development programs, including water reuse and recycling, wetlands expansion, recharge facility construction, ocean and brackish water desalination, surface storage and water use efficiency programs. These efforts are helping to enhance long-term countywide water reliability and water quality.

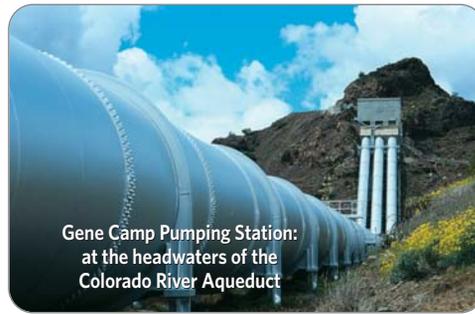
A healthy water future for Orange County rests on finding and developing new water supplies, as well as protecting the quality of the water that we have today. Your local and regional water agencies are committed to making the necessary investments today in new water management projects to ensure an abundant and high-quality water supply for our future.

## Basic Information About Drinking Water Constituents

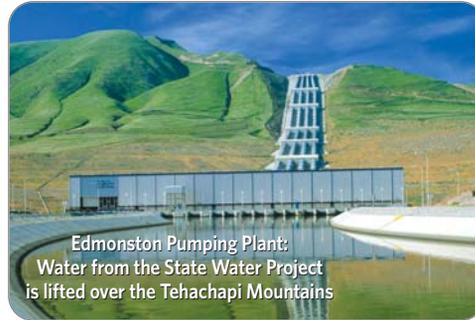
The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of land or through the layers of the ground it dissolves naturally occurring minerals and, in some cases, radioactive material, and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

Constituents that may be present in source water include:

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



Gene Camp Pumping Station:  
at the headwaters of the  
Colorado River Aqueduct



Edmonston Pumping Plant:  
Water from the State Water Project  
is lifted over the Tehachapi Mountains

- **Pesticides and herbicides**, which may come from a variety of sources such as agriculture, urban stormwater runoff and residential uses.

In order to ensure that tap water is safe to drink, USEPA and DDW prescribe regulations that limit the amount of certain constituents in water provided by public water systems. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some constituents. The presence of constituents does not necessarily indicate that water poses a health risk.

More information about constituents and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline, (800) 426-4791.

## 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 service lines and home plumbing.

The City 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 Safe Drinking Water Hotline or at [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead).



## Immuno-Compromised People

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised 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 from infections. These people should seek advice about drinking water from their health care providers.

## Questions about your water? Contact us for answers.

For information or concerns about this report, or your water quality in general, please contact Jason Shim, Water Quality Technician, at (714) 593-4624, or send e-mail to [jason.shim@fountainvalley.org](mailto:jason.shim@fountainvalley.org).

You may also address your concerns at the regularly scheduled City Council Meetings held at City Hall at 10200 Slater Avenue in Fountain Valley on the first and third Tuesdays of each month at 6:00 pm in the City Hall Council Chambers. 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 and the health of their watershed.

Your input and concerns are very important to us.

For more information about the health effects of the listed constituents in the following tables, call the USEPA hotline at (800) 426-4791.

# Important Information the EPA Would Like You to Know

## Issues in Water Quality that Could Affect Your Health

### Drinking Water Fluoridation

Fluoride occurs naturally in the City's water supplies. In addition to the natural levels, the City's water system adds a small concentration of sodium fluoride to the water to promote dental benefits per a majority vote of the community. Fluoridating the water especially helps to prevent tooth decay in children. Because of the dramatic health benefits of fluoridating drinking water, a 1997 assembly bill of the state of California has mandated all large system water suppliers to begin fluoridating their systems. In 2007 MWDSC began fluoridation of their water supply. The City's water is fluoridated to the DDW optimal range between 0.6 to 1.2 parts per million.

There are many places to go for additional information about the fluoridation of drinking water.

**U.S. Centers for Disease Control and Prevention:**  
1-800-232-4636 • [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.shtml](http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Fluoridation.shtml)

For more information about MWDSC's fluoridation program, please contact Edgar G. Dymally at (213) 217-5709 or at [edymally@mwdh2o.com](mailto:edymally@mwdh2o.com).

### 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 chart in this report shows 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:** 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.

### 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)

### 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 chart in this report includes 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.

### Chloramines

The City imports water from MWDSC which produces water using 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 and have no odor when used properly.



People who use kidney dialysis machines 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 these disinfectants are toxic to fish. For further information or if you have any questions about chloramines please call (714) 593-4624.

| 2015 City of Fountain Valley Drinking Water Quality<br>Local Groundwater and Metropolitan Water District Treated Surface Water |  |            |                         |                          |                     |                |   |
|--|--|------------|-------------------------|--------------------------|---------------------|----------------|---|
| Chemical   | MCL  | PHG (MCLG) | Avg. Groundwater Amount | Avg. Imported MWD Amount | Range of Detections | MCL Violation? | Typical Source of Contaminant                     |
| <b>Radiologicals – Tested in 2013, 2014 and 2015</b>   |  |            |                         |                          |                     |                |   |
| Alpha Radiation (pCi/L)  | 15   | (0)        | ND                      | ND                       | ND – 4              | No             | Erosion of Natural Deposits                       |
| Beta Radiation (pCi/L)   | 50   | (0)        | < 4                     | 5                        | ND – 6              | No             | Decay of Man-made or Natural Deposits             |
| Uranium (pCi/L)  | 20   | 0.43       | 2.38                    | 3                        | ND – 5.34           | No             | Erosion of Natural Deposits                       |
| <b>Inorganic Chemicals – Tested in 2015</b>  |  |            |                         |                          |                     |                |   |
| Aluminum (ppm)   | 1  | 0.6        | ND                      | 0.155                    | ND – 0.24           | No             | Treatment Process Residue, Natural Deposits       |
| Arsenic (ppb)  | 10   | 0.004      | ND                      | 2.3                      | ND – 2.3            | No             | Erosion of Natural Deposits                       |
| Barium (ppm)   | 1  | 2          | ND                      | 0.125                    | ND – 0.125          | No             | Refinery Discharge, Erosion of Natural Deposits   |
| Chromium, Hexavalent (ppb)   | 10   | 0.02       | < 1                     | ND                       | ND – 2.9            | No             | Erosion of Natural Deposits; Industrial Discharge |
| Fluoride (ppm) naturally-occurring   | 2  | 1          | 0.38                    | NR                       | 0.36 – 0.41         | No             | Erosion of Natural Deposits                       |
| Fluoride (ppm) treatment-related   | Control Range 0.6 – 1.2 ppm<br>Optimal Level 0.7 ppm |            | See Footnote 1          | 0.8                      | 0.6 – 1             | No             | Water Additive for Dental Health                  |
| Nitrate as N (ppm)   | 10   | 10         | 1.2                     | ND                       | ND – 2.1            | No             | Agriculture Runoff and Sewage                     |
| Nitrate and Nitrite as N (ppm)   | 10   | 10         | 1.2                     | ND                       | ND – 2.1            | No             | Agriculture runoff and sewage                     |
| <b>Secondary Standards* – Tested in 2015</b>   |  |            |                         |                          |                     |                |   |
| Aluminum (ppb)   | 200*   | 600        | ND                      | 155                      | ND – 240            | No             | Treatment Process Residue, Natural Deposits       |
| Chloride (ppm)   | 500*   | n/a        | 41                      | 100                      | 27.9 – 101          | No             | Runoff or Leaching from Natural Deposits          |
| Color (color units)  | 15*  | n/a        | ND                      | 1                        | ND – 1              | No             | Runoff or Leaching from Natural Deposits          |
| Copper (ppm)   | 1*   | n/a        | <0.05                   | ND                       | ND – 0.0913         | No             | Erosion of Natural Deposits                       |
| Odor (odor units)  | 3*   | n/a        | ND                      | 2                        | ND – 2              | No             | Naturally-occurring Organic Materials             |
| Specific Conductance (µmho/cm)   | 1,600*   | n/a        | 650                     | 1,040                    | 515 – 1,040         | No             | Substances that form ions in water                |
| Sulfate (ppm)  | 500*   | n/a        | 82.5                    | 257                      | 53.8 – 261          | No             | Runoff or Leaching from Natural Deposits          |
| Total Dissolved Solids (ppm)   | 1,000*   | n/a        | 397                     | 663                      | 304 – 665           | No             | Runoff or Leaching from Natural Deposits          |
| Turbidity (NTU)  | 5*   | n/a        | 0.12                    | ND                       | ND – 0.4            | No             | Runoff or Leaching from Natural Deposits          |
| <b>Unregulated Chemicals – Tested in 2015</b>  |  |            |                         |                          |                     |                |   |
| Alkalinity, total as CaCO <sub>3</sub> (ppm)   | Not Regulated  | n/a        | 178                     | 126                      | 120 – 197           | n/a            | Runoff or Leaching from Natural Deposits          |
| Boron (ppm)  | NL = 1   | n/a        | < 0.1                   | 0.12                     | ND – 0.15           | n/a            | Runoff or Leaching from Natural Deposits          |
| Calcium (ppm)  | Not Regulated  | n/a        | 71.6                    | 78                       | 50.2 – 98.7         | n/a            | Runoff or Leaching from Natural Deposits          |
| Hardness, total as CaCO <sub>3</sub> (ppm)   | Not Regulated  | n/a        | 232                     | 303                      | 161 – 314           | n/a            | Runoff or Leaching from Natural Deposits          |
| Hardness, total (grains/gal)   | Not Regulated  | n/a        | 13.6                    | 17.8                     | 9.44 – 18.4         | n/a            | Runoff or Leaching from Natural Deposits          |
| Magnesium (ppm)  | Not Regulated  | n/a        | 13                      | 27                       | 8.7 – 27            | n/a            | Runoff or Leaching from Natural Deposits          |
| pH (pH units)  | Not Regulated  | n/a        | 8                       | 8.1                      | 7.9 – 8.1           | n/a            | Hydrogen Ion Concentration                        |
| Potassium (ppm)  | Not Regulated  | n/a        | 2.6                     | 4.9                      | 1.6 – 5             | n/a            | Runoff or Leaching from Natural Deposits          |
| Sodium (ppm)   | Not Regulated  | n/a        | 42.8                    | 101                      | 35.8 – 104          | n/a            | Runoff or Leaching from Natural Deposits          |
| Total Organic Carbon (ppm)   | Not Regulated  | TT         | < 0.3                   | 2.6                      | ND – 2.7            | n/a            | Various Natural and Man-made Sources              |

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; NR = Not Required to be analyzed; MCL = Maximum Contaminant Level; (MCLG) = federal MCL Goal; n/a = not applicable; PHG = California Public Health Goal; NL = Notification Level \*Contaminant is regulated by a secondary standard to maintain aesthetic qualities (taste, odor, color)

(1) The Fountain Valley water system treats your water by adding fluoride to the naturally occurring level in order to help prevent dental caries in consumers. The fluoride levels in the treated water are maintained by the City within a control range of 0.6 ppm to 1.2 ppm.

| Turbidity – combined filter effluent<br>Metropolitan Water District Diemer Filtration Plant | Treatment Technique | Turbidity Measurements | TT Violation? | Typical Source of Contaminant |
|---|---------------------|------------------------|---------------|-------------------------------|
| 1) Highest single turbidity measurement   | 0.3 NTU             | 0.04                   | No            | Soil Runoff                   |
| 2) Percentage of samples less than 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. 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 contaminants in drinking water that are difficult and sometimes impossible to measure directly.

| Unregulated Chemicals Requiring Monitoring |                    |            |                     |                            |                     |                      |
|--|--------------------|------------|---------------------|----------------------------|---------------------|----------------------|
| Chemical                                   | Notification Level | PHG        | Average Groundwater | Average Imported MWD Water | Range of Detections | Most Recent Sampling |
| 1,4-Dioxane (ppb)                          | 1                  | n/a        | 1.9                 | ND                         | ND – 4.1            | 2013                 |
| Chlorate (ppb)                             | 800                | n/a        | < 20                | 53                         | ND – 95             | 2013                 |
| Chromium, Hexavalent (ppb)**               | MCL = 10           | 0.02       | 1.2                 | 0.07                       | 0.03 – 2.8          | 2013                 |
| Chromium, Total (ppb)***                   | MCL = 50           | MCLG = 100 | 0.93                | < 0.2                      | ND – 2.4            | 2014                 |
| Molybdenum, Total (ppb)                    | n/a                | n/a        | 4.4                 | 4.7                        | 3.1 – 5.9           | 2014                 |
| Strontium, Total (ppb)                     | n/a                | n/a        | 660                 | 930                        | 490 – 1,100         | 2014                 |
| Vanadium, Total (ppb)                      | 50                 | n/a        | 3.2                 | 2.8                        | 2.3 – 3.5           | 2014                 |

\*\*Hexavalent chromium was included as part of the unregulated chemicals requiring monitoring.  
\*\*\*Total chromium is regulated with an MCL of 50 ppb but was not detected, based on the detection limit for purposes of reporting of 10 ppb.  
Total chromium was included as part of the unregulated chemicals requiring monitoring.

# City of Fountain Valley Water Monitoring Requirement Violation

The City monitors your drinking water on a regular basis. Laboratory test results from regular monitoring for specific contaminants indicate whether or not the drinking water meets very stringent health standards as prescribed in the California Code of Regulations, Title 22, Chapter 15, "Domestic Water Quality and Monitoring

Regulations" (Title 22).

The table below lists the contaminants we did not test properly during the last year, how often we are supposed to sample for these contaminants and how many samples we are supposed to take, how many samples we took, and when samples should have been taken.

## What was done?

The City of Fountain Valley has since taken the required samples, as described in the "Required Sample Frequency" column of the table above. The samples showed we are meeting drinking water standards. To prevent future monitoring violations we have established a compliance schedule and reviewed the sampling requirements with staff responsible for collecting the samples.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, individuals in apartments, nursing homes, schools and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

| Contaminants      | Required Sample Frequency | Number of Samples Taken | When the Violation Happened                            |
|-------------------|---------------------------|-------------------------|--|
| Coliform bacteria | 120 to 150 per month      | 117 to 147 per month    | February, March, September, October, and November 2014 |

### Health Effects Language

Coliform is a family of bacteria that are naturally present in the environment and are used as an indicator that other potentially-harmful bacteria may be present.

|                     |   |      |   |
|---------------------|---|------|---|
| Fluoride Monitoring | Once annually (per well) by an outside certified lab. | None | *2008, 2010, 2011, 2013, 2014, and 2015 |
|---------------------|---|------|---|

### Health Effects Language

This is an alert about your drinking water and a cosmetic dental problem that might affect children under nine years of age. At low levels, fluoride can help prevent cavities, but children drinking water containing more than 2 milligrams per liter (mg/L) of fluoride may develop cosmetic discoloration of their permanent teeth (dental fluorosis). The drinking water provided by the City of Fountain Valley has a fluoride concentration of .38 mg/L. Dental fluorosis may result in a brown staining and/or pitting of the permanent teeth. This problem occurs only in developing teeth, before they erupt from the gums. Children under nine should be provided with alternative sources of drinking water or water that has been treated to remove the fluoride to avoid the possibility of staining and pitting of their permanent teeth. You may also want to contact your dentist about proper use by young children of fluoride-containing products. Older children and adults may safely drink the water.

Drinking water containing more than 4 mg/L of fluoride can increase your risk of developing bone disease. For more information, please call Jason Shim, Water Quality Technician for the City of Fountain Valley at (714) 593-4624. Some home water treatment units are also available to remove fluoride from drinking water. To learn more about available home water treatment units, you may call the California Department of Public Health's Water Treatment Device Unit at (916) 449-5600.

\*During the years cited submissions were sent to an outside certified lab for some, but not all of the cities wells.

## Want Additional Information?

There's a wealth of information on the internet about Drinking Water Quality and water issues in general. A good place to begin your own research is the City of Fountain Valley website:

[www.FountainValley.org](http://www.FountainValley.org)

In addition to information about your local water and the support and services we offer, you'll find links for many other local, statewide, and national resources.

## 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.

In 2012, MWDSC submitted to DDW its updated Watershed Sanitary Surveys for the Colorado River and State Water Project, which include suggestions for how to better protect these source waters. Both source waters are exposed to stormwater runoff, recreational activities, wastewater discharges, wildlife, fires, and other watershed-related factors that could affect water quality.

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 surveys. 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 drinking water sources for the City was completed in February 2003. The groundwater sources are considered most vulnerable to the following activities not associated with detected contaminants: dry cleaners, gas stations, historic gas stations, NPDES/WDR permitted discharges, and sewer collection systems.

A copy of the complete assessment is available at State Water Resources Control Board, Division of Drinking Water, Santa Ana District, 605 W. Santa Ana Boulevard, Building 6, Room 325, Santa Ana, California 92701.

## 2015 City of Fountain Valley Distribution System Water Quality

| Disinfection Byproducts     | MCL (MRDL/MRDLG) | Average Amount | Range of Detections | MCL Violation? | Typical Source of Contaminant       |
|-----------------------------|------------------|----------------|---------------------|----------------|-------------------------------------|
| Total Trihalomethanes (ppb) | 80               | 38             | ND – 50.4           | No             | Byproducts of chlorine disinfection |
| Haloacetic Acids (ppb)      | 60               | 5              | ND – 11.5           | No             | Byproducts of chlorine disinfection |
| Chlorine Residual (ppm)     | (4 / 4)          | 0.48           | ND – 3.16           | No             | Disinfectant added for treatment    |

### Aesthetic Quality

|                              |    |      |          |    |                             |
|------------------------------|----|------|----------|----|-----------------------------|
| Odor (threshold odor number) | 3* | 1    | 1        | No | Erosion of natural deposits |
| Turbidity (NTU)              | 5* | 0.07 | ND – 1.2 | No | Erosion of natural deposits |

Eight locations in the distribution system are tested quarterly for total trihalomethanes and haloacetic acids; thirty are tested monthly for color, odor and turbidity. Color was not detected in 2015.

MRDL = Maximum Residual Disinfectant Level; MRDLG = Maximum Residual Disinfectant Level Goal; NTU = nephelometric turbidity units; ND = not detected.

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

| Bacterial Quality       | MCL | MCLG | Highest Monthly Positive Samples | MCL Violation? | Typical Source of Contaminant        |
|-------------------------|-----|------|----------------------------------|----------------|--------------------------------------|
| Total Coliform Bacteria | 5%  | 0    | 0.8%                             | No             | Naturally present in the environment |

No more than 5% of the monthly samples may be positive for total coliform bacteria.

The occurrence of 2 consecutive total coliform positive samples, one of which contains fecal coliform/E.coli, constitutes an acute MCL violation.

## Lead and Copper Action Levels at Residential Taps

|              | Action Level (AL) | Health Goal | 90 <sup>th</sup> Percentile Value | Sites Exceeding AL / Number of Sites | AL Violation? | Typical Source of Contaminant   |
|--------------|-------------------|-------------|-----------------------------------|--------------------------------------|---------------|---------------------------------|
| Copper (ppm) | 1.3               | 0.3         | 0.215                             | 0 / 32                               | No            | Corrosion of household plumbing |
| Lead (ppb)   | 15                | 0.2         | ND                                | 0 / 32                               | No            | Corrosion of household plumbing |

For the sampling event, 32 residences were tested for lead and copper at-the-tap. The most recent set of samples was collected in August 2015.

Lead was detected in two homes, none of which exceeded the Action Level (AL). Copper was detected in 28 samples, none of which exceeded the AL.

A regulatory AL 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 Dates |
|------------------------------|--------------------|------------|----------------|---------------------|----------------------------|
| Chlorate (ppb)               | 800                | n/a        | 39             | ND – 57             | 2013                       |
| Chromium, Hexavalent (ppb)** | MCL = 10           | 0.02       | 0.19           | 0.04 – 0.6          | 2013                       |
| Chromium, Total (ppb)***     | MCL = 50           | MCLG = 100 | < 0.2          | ND – 0.5            | 2013                       |
| Molybdenum, Total (ppb)      | n/a                | n/a        | 4.2            | 3.6 – 4.6           | 2013                       |
| Strontium, Total (ppb)       | n/a                | n/a        | 890            | 740 – 1,100         | 2013                       |
| Vanadium, Total (ppb)        | 50                 | n/a        | 2.9            | 2.6 – 3.4           | 2013                       |

\*\*Hexavalent chromium is regulated with an MCL of 10 ppb but was not detected, based on the detection limit for purposes of reporting of 1 ppb.

Hexavalent chromium was included as part of the unregulated chemicals requiring monitoring.

\*\*\*Total chromium is regulated with an MCL of 50 ppb but was not detected, based on the detection limit for purposes of reporting of 10 ppb.

Total chromium was included as part of the unregulated chemicals requiring monitoring.

# We All Need to Be Water Wise All Year Long

*One Average Rainy Season Does Not Overcome the Effects of Four Dry Years*

Winter storms this year boosted California's largest reservoirs to their historically average levels, but other key reservoirs remain critically low as our historic drought keeps its grip on the state. One average season does not overcome the effects of four dry years, and rain and snowfall were well below average in Southern California. To learn more about the drought, or to find useful tips for how to conserve water, click the logos to visit:

**bewaterwise.com**® or **Save Our WATER** 

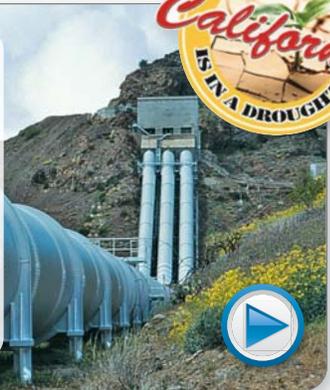
To learn about programs and devices that can help save water, along with information on rebates for these water saving resources, visit:

[www.OCWaterSmart.com](http://www.OCWaterSmart.com)

To view a short YouTube video on multiple ways to conserve water, [click here](#).



**The Colorado Aqueduct**  
 Imported water from the Colorado River travels over 240 miles to get to Orange County. Along the way, it is lifted over 1,600 feet by a series of five pumping plants. Shown here, the Gene Pumping Station near the Colorado River boosts the water over 300 feet. From there, it flows through a series of canals, pipes, tunnels, and siphons, across the Mojave Desert and beneath the San Jacinto Mountains, on its way to meet the needs of the people of Southern California. To view a short YouTube video on the construction and history of the Colorado Aqueduct, [click here](#).




**The California State Water Project**  
 The State Water Project, one of the largest water systems in the world, collects water from rivers in Northern California and transports it, through a network of canals, pipelines, and tunnels, over many hundreds of miles to Southern California, where it is distributed throughout the region. Along the way, it is lifted almost 3,800 feet, with the highest single lift of 1,926 feet over the Tehachapi Mountains, which separate the San Joaquin Valley from Southern California. To view a short YouTube video that shows the length and complexity of the State Water Project, [click here](#).




## Conservation Tips for Inside Your Home . . .

Install aerators on the kitchen faucet

**Reduces flow to less than 1 gallon per minute**

Soak pots and pans instead of letting water run while you scrub them clean

**Saves water and makes the job easier**

Collect water used to wash fruits and vegetables

**Use it to water your houseplants**

Cook food in as little water as possible

**Saves water and helps retain food nutrients**

Keep a pitcher of drinking water in the refrigerator

**Saves gallons of water and it's always cold**

Wash only full loads of laundry and dishes

**Saves up to 50 gallons per week**

Plug the sink instead of running water to rinse your razor

**Saves up to 300 gallons a month**

Don't run water to thaw food:

**Defrost in the refrigerator**



# We Use the Most Water in Our Homes on the Outside

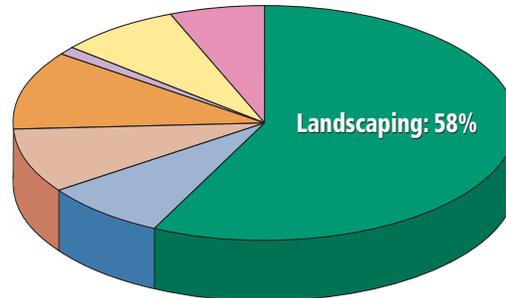
*Save the Most Where You Use the Most: Make Your Outdoor Use Efficient!*

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.

For rebates on water saving devices, visit:

[www.OCWaterSmart.com](http://www.OCWaterSmart.com)

## How Residential Water is Used in Orange County



- Showers & Baths: 8%
- Clothes Washers: 9%
- Toilets: 11%
- Dishwashers: 1%
- Leaks: 7%
- Faucets: 6%

Data is representative of average consumption; your water usage may vary.

## Tips for Conserving Water Outside Your Home. . .

Use a broom instead of a hose

***It takes very little time to sweep and the water savings add up***

Water plants in the early morning

***Reduces evaporation and ensures deeper watering***

Plant drought-resistant trees and plants

***Saves about 30-60 gallons per 1,000 sq. ft. each time you water***

Remove the turf from your yard:

***Saves about 42 gallons per square foot/per year***

Check your sprinkler system for leaks, overspray and broken sprinkler heads and repair promptly:

***Saves 12-15 gallons each time you water***

Use organic mulch around trees and plants to reduce evaporation and improve the soil

***Saves about 20-30 gallons per 1,000 sq. ft. each time you water***

Additional water saving steps and devices are also available, and some are eligible for substantial rebates. You should consider a cover for your swimming pool or hot tub to reduce evaporation. And water your garden deeply to promote healthier, stronger plants. Regular pruning will help your plants use water more efficiently. You won't need to water as often, either.

For complete rebate information for these water saving resources, visit: [www.ocwatersmart.com](http://www.ocwatersmart.com).

***Talk to your family and friends about saving water.  
If everyone does a little, we all benefit a lot.***



### City of Fountain Valley

Field Services - Water Department  
17300 Mt. Herrmann Street  
Fountain Valley, California 92708

# This report contains important information about your drinking water. Translate it, or speak with someone who understands it.

يحتوي هذا التقرير على معلومات هامة عن نوعية ماء الشرب في منطقتك. يرجى ترجمته، أو ابحث التقرير مع صديق لك يفهم هذه المعلومات جيدا.

## *Arabic*

이 보고서에는 귀하가 거주하는 지역의 수질에 관한 중요한 정보가 들어 있습니다. 이것을 번역하거나 충분히 이해하시는 친구와 상의하십시오.

## *Korean*

这份报告中有些重要的信息，讲到关于您所在社区的水的品质。请您找人翻译一下，或者请能看得懂这份报告的朋友给您解释一下。

## *Chinese*

Este informe contiene información importante sobre su agua potable. Traducir, o hable con alguien que entiende.

## *Spanish*

この資料には、あなたの飲料水についての大切な情報が書かれています。内容をよく理解するために、日本語に翻訳して読むか説明を受けてください。

## *Japanese*

Bản báo cáo có ghi những chi tiết quan trọng về phẩm chất nước trong cộng đồng quý vị. Hãy nhờ người thông dịch, hoặc hỏi một người bạn biết rõ về vấn đề này.

## *Vietnamese*