

# United Water Conservation District

Oxnard-Hueneme Water Delivery System



## 2017 Consumer Confidence Report

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### Testing and Results

Last year we conducted thousands of tests for over 180 chemicals and contaminants that could be found in your drinking water. We did not detect any contaminants that would make the water unsafe to drink. This report highlights the quality of water we delivered to our customers last year. Included are details about where your water comes from, what it contains, and how it compares to State standards. For more information about your water, please call our Chief Operations Officer, Mike Ellis at (805) 485-5114.

### Public Meetings

Our monthly Board meetings are usually held on the second Wednesday of every month at 1:00 PM in our board room at our "Irv Wilde Headquarters" located at 106 North 8th Street in Santa Paula. Our meetings are open to the public and we would welcome your questions and comments.

### About Your Water Supply

United Water's Oxnard-Hueneme Delivery System supplies about 15,000 acre-feet of water per year to several agencies in the Oxnard Plain, including the city of Oxnard, the Port Hueneme Water Agency (PHWA), and several smaller water companies. These agencies supply our water to over 222,000 people, most of it treated or blended with other supplies. Our water source is 100% local groundwater, pumped from wells near El Rio, north of Oxnard. Water from those wells has its origin in the mountains and valleys of the 1,600 square mile Santa Clara River watershed. The wells are in an aquifer called the Oxnard Forebay. Our water is naturally high in minerals that affect its taste, but is safe to drink. Our groundwater is considered to be "under the influence of surface water," which means we do extensive monitoring of turbidity and other parameters to meet health regulations.

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Water produced by our wells is naturally filtered through the ground. We use chlorine as a disinfectant to kill bacteria, parasites, and viruses. Then we add chloramines to provide a long-lasting disinfection residual to keep the water safe until it reaches our customers. Due to the longer-lasting residual of chloramines, owners of pet fish must treat their tap water before putting it into aquariums or ponds.

## Types of Potential Contamination

In general, 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 the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

**Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife;

**Inorganic contaminants**, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming;

**Organic chemical contamination**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems;

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

**Radioactive contaminants**, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that your tap water is safe to drink, USEPA and the State Water Resources Control Board prescribe regulations that limit the amount of certain contaminants in public drinking water. We treat our water to meet these health regulations. The State Board's regulations also establish limits for contaminants in bottled water, which must provide the same protection for public health. Scientists and health experts are continually studying the effects of various chemicals in drinking water to make sure the public water supply is safe.

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 (1-800-426-4791).

## Definitions

**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.

**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 the U.S. Environmental Protection Agency.

**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. Secondary MCLs are set to protect odor, taste and appearance of drinking water.

**Primary Drinking Water Standard (PDWS):** MCLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

**Maximum Residual Disinfectant Level (MRDL):** The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

**Maximum Residual Disinfectant Level Goal (MRDLG):** The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.

**Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water.

**Detection Limit for Reporting (DLR):** The level above which a chemical is to be reported.

**NA:** not applicable

**ppm:** parts per million, or milligrams per liter

**ppb:** parts per billion, or micrograms per liter

**ND:** none detected

**pCi/L:** picocuries per liter (a measure of radioactivity)

**µS/cm:** micro-Siemens/centimeter (a measure of conductivity)

**TON:** threshold odor number

**NTU:** Nephelometric Turbidity Units

## Turbidity

Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our water treatment. Turbidity is measured in units called NTUs. We achieved 100% compliance with turbidity standards in 2017.

## Contaminants Detected in 2017

Contaminant	Units	State MCL [MRDL]	PHG (MCLG) [MRDLG]	Avg	Range	Sample Date	Violation	Typical Sources in Drinking Water
<b>Microbiological Contaminants</b>								
Total Coliform bacteria	Absence/ Presence/ 100ml	Systems that collect <40 samples/month: no more than 1 positive sample	0	Absent	Absent	2017	No	Naturally present in the environment.
Fecal Coliform bacteria and <i>E.coli</i>	Absence/ Presence/ 100ml	A routine and repeat sample are total coliform positive, and one of these is fecal or <i>E.coli</i> positive	0	Absent	Absent	2017	No	Human and animal fecal waste.
Delivered water turbidity	NTU	TT	NA	0.33	0.12-0.53	2017	No	Well corrosion byproducts. Microscopic soil particles.
<b>Radioactivity Contaminants</b>								
Gross Alpha	pCi/L	15	0	7.51	4.79-8.86	2017	No	Erosion of natural deposits.
Radon	pCi/L	NA	NA	331.25	262-388	2017	No	Decay of natural deposits.
Uranium	pCi/L	20	0.43	3.48	1.62-4.66	2017	No	Erosion of natural deposits.
<b>Inorganic Contaminants</b>								
Arsenic	ppb	10	0.004	5.5	3-8	2017	No	Erosion of natural deposits.
Fluoride	ppm	2	1	0.6	0.6-0.6	2017	No	Erosion of natural deposits.
Nitrate (as N)	ppm	10	10	6.38	3.8-9.2	2017	No	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Selenium	ppb	50	30	17.5	0-35	2017	No	Erosion of natural deposits. Discharge from mines, runoff from livestock lots.
<b>Disinfection</b>								
Chloramine Residual (as Cl <sub>2</sub> )	ppm	[4.0]	[4]	1.70	1.53-1.88	2017	No	Drinking water disinfectant added for treatment.
<b>Disinfection By-Products</b>								
Haloacetic Acids	ppb	60	NA	7.38	6-9	2017	No	By-product of drinking water disinfection.
Total Trihalomethanes	ppb	80	NA	34.9	23.0-52.7	2017	No	By-product of drinking water disinfection.
<b>Disinfection By-Product Precursors</b>								
Total Organic Carbon (TOC)	ppb	TT	NA	1.03	1-1.1	2017	No	Various natural and man-made sources.
<b>Secondary Standards</b>								
Chloride	ppm	500	NA	56	55-57	2017	No	Leaching from natural mineral deposits.
Sodium	ppm	NA	NA	96.5	95-98	2017	No	Leaching from natural mineral deposits.
Specific Conductance	μS/cm	1600	NA	1450	1370-1510	2017	No	Substances that form ions in water; seawater influence
Sulfate	ppm	500	NA	492.2	463-529	2017	No	Runoff/leaching from natural deposits.
Total Dissolved Solids, TDS	ppm	1000	NA	1069	980-1120	2017	Yes	Runoff/leaching from natural deposits.
Total Hardness	ppm	NA	NA	572	562-582	2017	No	Leaching from natural mineral deposits.
Iron	ppb	300	NA	65	30-100	2017	No	Leaching from natural deposits.
Manganese	ppb	50	NA	24.53	20-40	2017	No	Leaching from natural deposits.
<b>Unregulated Chemicals</b>								
Boron	ppb	NA	NA	650	600-700	2017	No	Naturally present in the environment.

## Water Quality Data

The table on page three lists all of the drinking water contaminants that we detected during the 2017 calendar year. The presence of these contaminants in the water does not indicate that the water poses a health risk. In addition to the contaminants on the table, we tested for many other chemicals which were not detected at significant levels. Please call us if you would like a copy of the complete list of chemicals we tested for and the test results.

## Secondary Drinking Water Standards

Chloride, Sodium, Specific Conductance, Sulfate, TDS, Total Hardness, Iron and Manganese are secondary standards related to the taste of the water, and water exceeding the MCL is generally safe for human consumption. Our water exceeds the secondary standards for TDS because of naturally occurring minerals in the water.

## Source Water Assessment

United Water completed a Source Water Assessment for its drinking water wells in October 2001. The current report is available for public review at our office in Santa Paula. The assessment provides a survey of potential sources of contamination of the groundwater that supplies our wells. Activities that constitute the highest risk to our water are the following: petroleum storage tanks and fueling operations, septic systems, and animal feed lots that are no longer in use. The most recent update for the Surface Water Sanitary Survey was completed in January of 2016 and was submitted to the State Water Resources Control Board.

## Cryptosporidium

Cryptosporidium is a microbial pathogen found in surface water throughout the U.S. Although filtration removes Cryptosporidium, the most commonly-used filtration methods cannot guarantee 100 percent removal. Our source water monitoring in 2017 did not indicate the presence of these organisms.

## Security of your Water

We have completed a Vulnerability Assessment of our OH water facilities. This work, funded by an EPA grant, has improved the security and safety of our water supply.

## Radon

Radon is a radioactive gas that you cannot see, taste or smell. It is found throughout the U.S. Radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build up to high levels in all types of homes. Radon can also get into indoor air when released from tap water through showering, washing dishes and other household activities. Compared to radon entering the home through soil, radon entering the home through tap water will be a small source of radon in indoor air. Radon is a known human carcinogen. Breathing air containing radon can lead to lung cancer. Drinking water containing radon may also cause increased risk of stomach cancer. If you are concerned about radon in your home, you may test the air in your home. There are simple ways to fix a radon problem that are not too costly. For additional information, call the National Safety Council's Radon Hotline (800-SOS-RADON).

## About Nitrate

Nitrate in drinking water at levels above 10 mg/L is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in a serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 10 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider. Nitrate levels may rise quickly because of rainfall or agricultural activity.

## Immuno-compromised Persons

Some people may be more vulnerable to contaminants in drinking water than the general population. Immune-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

## Hablamos Español

Este informe contiene información muy importante sobre su agua potable. Para información en español llámenos al (805) 525-4431.