Marina Coast Water District

2018 Consumer Confidence Report

Water Quality

The District diligently monitors drinking water quality and conveys only what it knows to be accurate. The report involves California and federal drinking water standards.

Federal Groundwater Rule

The California Department of Public Health (CDPH) implemented the Federal Groundwater Rule (GWR) on December 31, 2015. The purpose of the GWR is to reduce the risk of illness caused by microbial contamination in public groundwater systems. The District is planned to report that collection well was not contaminated with total coliform bacteria. The results of the surveillance samples collected in Central Marina and Ord Community.

Trichloroethylene (TCE)

TCE was a common solvent used by the U.S. Army on the former Fort Ord in 2018. TCE leaked from thehci, orehdwell erin was detected in District supply Wells 29, 30, and 31. Through this process, the sources of drinking water (both tap and bottled water) include: industry, agricultural drainage, salt water intrusion, and sewage. Sources such as agriculture, urban stormwater runoff and residential treatment can also come from gas and oil exploration, or farming.

Water Source As Assessment

Several water source assessments have been completed. These assessments identified the presence of possible contaminant activity (PCA), such as current or historic activities that are likely to result or sources such as animal feedlots. While your drinking water meets the federal and state drinking water standards, it is important to test for lead in your water.

Nitrates

Nitrates in drinking water at levels above 10 mg/L can be harmful to health, and risk factors include: less than six months of age. Such nitrate levels in drinking water should be reduced if possible. If you are pregnant, you should avoid water being exposed for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you should boil your water before using it for drinking, cooking, and other applications.

Arsenic

Arsenic levels in drinking water in the U.S. are set at 10 ppb (parts per billion) to protect against cancer risk. Arsenic is a known to cause cancer in humans at high concentrations and is likely to be harmful to health at lower concentrations. Radon is a gas that can be naturally occurring in drinking water from their health care providers. USEPA/State Water Resources Control Board (State Board) provides recommendations for sites with elevated levels of radon.

A source to the contamination:

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons with weakened immune systems, infants, some elderly, and persons who have undergone organ transplants may be particularly at risk if infected with Cryptosporidium or giardia.

Salt Water Intrusion

Some people may wish to have your water tested. Information on lead in drinking water and health effects of low levels of arsenic, which is a known cancer-causing agent. Radon is a gas that may enter your home through cracks in your foundation, or by contact with soil that contains radon in indoor air. Radon is a known to cause cancer in humans at high concentrations. Radon can increase risk of radon in indoor air. Radon is a known to cause cancer in humans at high concentrations. Radon can increase risk of cancer. If you are concerned about lead in your water, you should boil your water before using it for drinking, cooking, and other applications.
How to Read Water Quality Tables

The following tables list the results of detected contaminants in the District’s drinking water. The results are from the comprehensive drinking water quality testing program. While most monitoring was completed through December 2018, some sites were sampled for monitoring. In some cases, the highest recorded contaminant levels from one year prior became the limits that do not change frequently. The test results are divided into the following sections: Primary Drinking Water Standards, Secondary Drinking Water Standards, Other Unregulated Contaminants, and Groundwater Supply Water Quality Standards.

Distribution System Water Quality

**PRIMARY DRINKING WATER STANDARDS**

- **Microbiological:**
  - Total Coliform Bacteria per 100 ml (MCLG): 0; MCL: 0
  - Giardia (PFU) Year Tested: 2018 150 n/a No
  - Cryptosporidium (PFU) Year Tested: 2018 25 n/a No

- **Disinfection Byproducts & Disinfectant Residuals:**
  - Lead & Copper Indoor Tap Samples: 2016
    - Lead ppb: 15 n/a ND (<5) 1 of 35 No
    - Copper ppm: 1.3 n/a 2016 0.29 0 of 35 No

**SECONDARY DRINKING WATER STANDARDS**

- **Disinfection Byproducts & Disinfectant Residuals:**
  - Lead & Copper Indoor Tap Samples: 2016
    - Lead ppb: 15 n/a ND (<5) 1 of 35 No
    - Copper ppm: 1.3 n/a 2016 0.29 0 of 35 No

**PUBLIC HEALTH GOALS (PHGs):**

- **Dichloromethane [Methylene Chloride] ppb:** 5
  - Detected: No
  - MCL: 4
  - PHG: ND
  - Range: ND - 2.9
  - Violation: No
  - Major Source(s): Paint removal products, pharmaceutical and chemical factories.

**GROUNDWATER SUPPLY WATER QUALITY STANDARDS**

- **Alkalinity ppm:**
  - Detected: No
  - MCL: 120
  - PHG: 93 - 180
  - Range: 93 - 180
  - Violation: No
  - Major Source(s): Naturally-occurring minerals.

- **Boron ppm:**
  - Detected: No
  - MCL: 0.5
  - PHG: 0.25 - 0.5
  - Range: 0.25 - 0.5
  - Violation: No
  - Major Source(s): Naturally-occurring minerals.

- **Chloride ppm:**
  - Detected: No
  - MCL: 500
  - PHG: 49 - 200
  - Range: 49 - 200
  - Violation: No
  - Major Source(s): Leaching from natural deposits; seawater influence.

- **Copper ppm:**
  - Detected: No
  - MCL: 1.3
  - PHG: 0.3
  - Range: 0.3 - 0.3
  - Violation: No
  - Major Source(s): Naturally-occurring minerals.

- **Fluoride (Natural) ppm:**
  - Detected: No
  - MCL: 2
  - PHG: 1
  - Range: 1 - 2
  - Violation: No
  - Major Source(s): Erosion of natural deposits.

- **Lead ppb:**
  - Detected: No
  - MCL: 15
  - PHG: ND (<5)
  - Range: ND - 5.4
  - Violation: No
  - Major Source(s): Erosion of natural deposits.

- **Magnesium ppm:**
  - Detected: No
  - MCL: 14
  - PHG: 2.4 - 24
  - Range: 2.4 - 24
  - Violation: No
  - Major Source(s): Naturally-occurring minerals.

- **Manganese ppm:**
  - Detected: No
  - MCL: 0.3
  - PHG: ND (<5)
  - Range: ND - 0.2
  - Violation: No
  - Major Source(s): Naturally-occurring minerals.

- **Nitrates (NO₃) ppm:**
  - Detected: No
  - MCL: 10
  - PHG: 5
  - Range: 5 - 10
  - Violation: No
  - Major Source(s): Leaching from natural deposits.

- **Nitrites (NO₂) ppm:**
  - Detected: No
  - MCL: 0.2
  - PHG: ND (<5)
  - Range: ND - 0.2
  - Violation: No
  - Major Source(s): Erosion of natural deposits.

- **Potassium ppm:**
  - Detected: No
  - MCL: 2.9
  - PHG: 1.9 - 4.0
  - Range: 1.9 - 4.0
  - Violation: No
  - Major Source(s): Naturally-occurring mineral.

- **Selenium ppb:**
  - Detected: No
  - MCL: 50
  - PHG: 30
  - Range: 30 - 50
  - Violation: No
  - Major Source(s): Erosion of natural deposits.

- **Sulfate ppm:**
  - Detected: No
  - MCL: 500
  - PHG: 36 - 57
  - Range: 36 - 57
  - Violation: No
  - Major Source(s): Leaching from natural deposits; seawater influence.

- **Total Alkalinity:**
  - Detected: No
  - MCL: 120
  - PHG: 93 - 180
  - Range: 93 - 180
  - Violation: No
  - Major Source(s): Naturally-occurring minerals.

- **Total Dissolved Solids:**
  - Detected: No
  - MCL: 1000
  - PHG: 520 - 1100
  - Range: 520 - 1100
  - Violation: No
  - Major Source(s): Substances that form ions when in water; seawater influence.

- **Total Iron mg/L:**
  - Detected: No
  - MCL: 0.3
  - PHG: ND (<5)
  - Range: ND - 0.3
  - Violation: No
  - Major Source(s): Erosion of natural deposits.

- **Total Lead mg/L:**
  - Detected: No
  - MCL: 15
  - PHG: ND (<5)
  - Range: ND - 5.4
  - Violation: No
  - Major Source(s): Erosion of natural deposits.

- **Total Suspended Solids:**
  - Detected: No
  - MCL: 20
  - PHG: 5 - 20
  - Range: 5 - 20
  - Violation: No
  - Major Source(s): Erosion of natural deposits.

- **Total Trihalomethanes (TTHM) ppb:**
  - Detected: No
  - MCL: 8
  - PHG: ND
  - Range: ND - 20
  - Violation: No
  - Major Source(s): Byproduct of drinking water disinfection.

- **Volatile Organic Compounds (VOCs) ppm:**
  - Detected: No
  - MCL: 0.1
  - PHG: ND (<5)
  - Range: ND - 0.1
  - Violation: No
  - Major Source(s): Paint removal solvents, pharmaceutical and chemical factories.

- **Volatile Organic Compounds (VOCs):**
  - Detected: No
  - MCL: 0.1
  - PHG: ND (<5)
  - Range: ND - 0.1
  - Violation: No
  - Major Source(s): Paint removal solvents, pharmaceutical and chemical factories.

Definitions of Terms Used

**Primary Drinking Water Standards (PDWS):**

- **Maximum Contaminant Level (MCL):** The highest level of a contaminant allowed in drinking water. MCLs are set to protect the odor, taste, and appearance of drinking water. Primary MCLs are set as close to the Public Health Goal (PHG) as feasible.

- **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.

- **Public Health Goal (PHG):** The level of a contaminant in drinking water to which nearly all people could be exposed on a daily basis without adverse health effects. MCLGs are non-enforceable guidelines that the public can use to make decisions about their drinking water.

**Secondary Drinking Water Standards (SDWS):**

- **Primary Drinking Water Standards (PDWS):**
  - **Concentrations:**
    - * 90th Percentile:
      - Specific Conductance µS/cm: 1600 n/a 2018 677 520 - 1100 No
      - pH Units: Units 6.5 - 8.5 n/a 2018 8.0 7.7 - 8.3 No
      - POT: n/a 0.0 2018 1.7 0.0 - 5.0 No
      - NTU: n/a 0.0 2018 0.1 0.0 - 1.0 No
      - Threshold Odor Number (TON): 3 n/a 2018 1.7 ND - 2.0 No
      - Unregulated Contaminants — No Disinfectants Water Standards:
        - Fluoride (Natural) ppm: 2.0 1 2018 0.20 ND - 0.28 No
        - Gross Alpha particle activity pCi/L: 15 (Zero) 2016/2014/2013 (d) ND ND - 4.9 No
      - Unregulated Contaminants — No Disinfectants Water Standards:
        - Fluoride (Natural) ppm: 2.0 1 2018 0.20 ND - 0.28 No
        - Gross Alpha particle activity pCi/L: 15 (Zero) 2016/2014/2013 (d) ND ND - 4.9 No