

MCWD Consumer Confidence Report 2023



MCWD Operator collecting a routine water sample.

MCWD Consumer Confidence Report

Marina Coast Water District is proud to present the 2023 Consumer Confidence Report. This annual water quality report includes information about where your water comes from, what it contains, and how it compares to drinking water standards. As in the past, the District gives you the assurance that your drinking

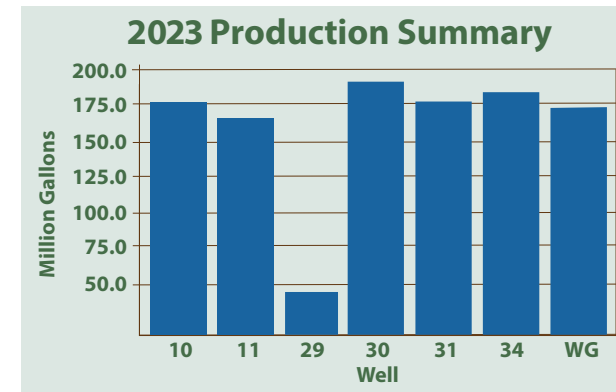
water meets stringent California and Federal drinking water standards.

If you have any questions regarding the information in this report or about your water, please contact the Operation and Maintenance Manager, Derek Cray at (831) 883-5903. You can also visit our website at www.mcwd.org.

Water Supply and Treatment

The District provides groundwater produced from seven wells delivered through a distribution system network of eight storage tanks and nearly 215 miles of water main pipeline.

Two deep supply wells (10 and 11) located in Central Marina, draw groundwater from the 900-foot aquifer in the Salinas Valley Groundwater Basin where the water is then treated on-site for disinfection. The remaining five supply wells (29, 30, 31, 34, and Watkins Gate) located in the Ord Community, draw groundwater from the Salinas Valley Groundwater Basin's 900-foot, 400-foot, and lower 180-foot aquifers. Groundwater from these supply wells is disinfected in the Ord Community chlorination treatment facility.



Source Water Assessment

Several source water assessments have been completed. Source water assessments consider several factors which include: the presence of possible contaminating activity (PCA) such as current or historic human activities that are potential origins of contamination for a drinking water source, its proximity to the source, the risk associated with the PCA, and the construction and setting of the source. These factors are then ranked, and the source considered most vulnerable to the PCAs is listed at the top of the ranking.

- In July 2001, the California Department of Public Health (CDPH) completed an assessment of each groundwater supply well in Central Marina which concluded that the wells are most vulnerable to historic waste dumps, landfill activities, and military installations.
- In February 2002, an assessment was completed of each groundwater supply well in the Ord Community. The assessment showed which of the wells are most

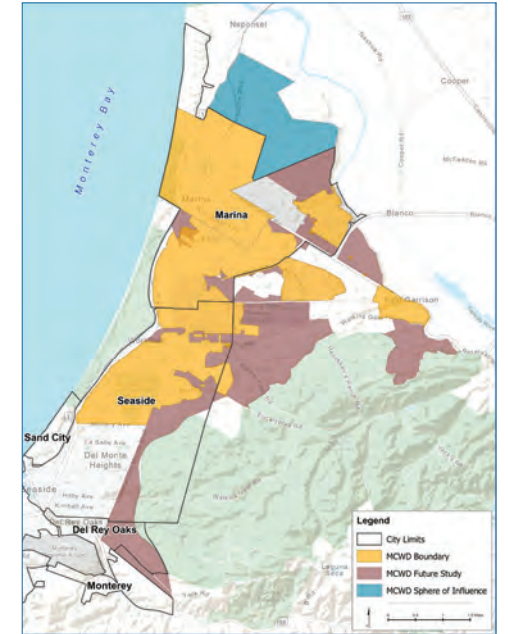
vulnerable to known volatile organic contaminant plumes from the closed landfill on the former Fort Ord; some plumes include saltwater intrusion, sewer collection system, above-ground storage tanks, irrigated crops, transportation corridors, farm machinery repair sites, and septic systems.

- In November 2012, a completed source assessment for the Watkins Gate Well determined that the well was most vulnerable to Military Installations.
- In February 2014, a completed assessment for Well 34 determined that the well was most vulnerable to Military installations (former Fort Ord), agricultural drainage, saltwater intrusion, and sewer collection systems.

Full details of the assessments may be viewed at the following locations: MCWD, 11 Reservation Road, Marina, CA, or at SWRCB DDW, 1 Lower Ragsdale Drive, Building 1, Suite 120, Monterey, CA.

Báo cáo này chứa thông tin rất quan trọng về nước uống của bạn. Vui lòng truy cập trang web của chúng tôi cho một phiên bản dịch của báo cáo này, hoặc liên hệ với chúng tôi tại (831) 384-6131 để hỗ trợ thêm.
www.mcwd.org

이 보고서에는 식수에 대한 매우 중요한 정보가 포함되어 있습니다. 이 보고서의 번역된 버전은 당사 웹 사이트를 방문하거나 (831) 384-6131로 연락하여 추가 지원을 받으십시오. www.mcwd.org



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Mission Statement: We provide our customers with high quality potable and recycled water, wastewater collection and conservation services that are safe, affordable, reliable and sustainable, through planning, management and the development of water resources in an environmentally sensitive manner.

Board meetings are open to the public and are normally held on the third Monday of every month at the MCWD offices at 920 2nd Avenue, Suite A, Marina at 6:30 p.m. Agendas are posted in the following places at least 72 hours before each meeting: Marina Coast Water District, Marina and Seaside City Halls, Marina and Seaside Libraries and the Marina Post Office.

Follow the District on Nextdoor, Twitter, and Facebook



Este informe contiene información muy importante sobre su agua potable. Visite nuestro sitio web para obtener una versión traducida de este informe, o póngase en contacto con nosotros al (831) 384-6131 para obtener más ayuda. www.mcwd.org

Ang ulat na ito ay naglalaman ng napakahalagang impormasyon tungkol sa iyong inuming tubig. Mangyaring bisitahin ang aming website para sa isang isinalin na bersyon ng ulat na ito, o makipag-ugnay sa amin sa (831) 384-6131 para sa karagdagang tulong. www.mcwd.org

Water Quality

The District diligently monitors water quality for drinking water and once again, is proud to report that your tap water meets California and Federal drinking water standards.

Federal Unregulated Contaminants Monitoring Rule-5 (UCMR-5)

In 2023, the District participated in the fifth phase of the Unregulated Contaminant Monitoring Rule (UCMR-5). Unregulated contaminants are those for which the EPA has not yet established drinking water standards. Monitoring assists the EPA in determining the occurrence of these compounds and whether or not regulation is warranted. Our system monitored for 30 chemicals as specified by the U.S. Environmental Protection Agency (USEPA). The results were reported directly to the USEPA. Detections are summarized in the UCMR5 table, along with typical contaminant sources. Marina Coast Water District's UCMR5 report is available in full by visiting our website at https://www.mcwd.org/gsa_water_quality.html.

State Total Coliform Rule and Federal Groundwater Rule

This Consumer Confidence Report (CCR) reflects changes in drinking water regulatory requirements during 2021. These revisions add the requirements of the federal Revised Total Coliform Rule, effective since April 1, 2016, to the existing state Total Coliform Rule. The revised rule maintains the purpose to protect public health by ensuring the integrity of the drinking water distribution system and monitoring for the presence of microbials (i.e., total coliform and *E. coli* bacteria). The U.S. EPA anticipates greater public health protection as the rule requires water systems that are vulnerable to microbial contamination to identify and fix problems. Water systems that exceed a specified frequency of total coliform occurrences are required to conduct an assessment to determine if any sanitary defects exist. If found, these must be corrected by the water system. The state Revised Total Coliform Rule became effective July 1, 2021.

Trichloroethylene (TCE)

TCE was a common solvent used by the U.S. Army on the former Fort Ord. In 2023, TCE was detected in wells 29, 30, and 31 at low levels, with the average level from the source wells at 0.4 parts per billion (ppb). The Public Health Goal (PHG), which is determined by a level that would not cause significant adverse health effects in people who drink the same water every day for 70 years, is 1.7 ppb for TCE. The Maximum Contaminant Level (MCL), which is the maximum level of a contaminant that can be within the drinking water, is 5 ppb for TCE. The District continues to regularly monitor for TCE in its water supply.

The U.S. Army is actively cleaning up the shallow groundwater plumes of TCE within the former Fort Ord lands. They also operate a network of shallow groundwater monitoring

wells to track the progress of the TCE cleanup efforts. The U.S. Army groundwater monitoring wells do not supply drinking water to District customers. For more information on the ongoing cleanup efforts, please visit <https://fortordcleanup.com/programs/groundwater/>.

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 for short periods of time because of rainfall or agricultural activity.

Arsenic

While your drinking water meets the federal and state standard for arsenic, it does contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The U.S. Environmental Protection Agency continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Lead

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 plumb-

ing. Marina Coast Water District 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 in the pipes 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 <http://www.epa.gov/lead>.

A Notice on 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 from showering, washing dishes, and other household activities. Compared to radon entering the home through soil, radon entering the home through tap water will in most cases 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 an increased risk of stomach cancer. If you are concerned about radon in your home, test the air in your home. Testing is inexpensive and easy. You should pursue radon removal for your home if the level of radon in your air is 4 picocuries per liter of air (pCi/L) or higher. There are simple ways to fix a radon problem that are not too costly. For additional information, call your State radon program (1-800-745-7236), the U.S. EPA Safe Drinking Water Hotline (1-800-426-4791), or the National Safety Council Radon Hotline (1-800-767-7236).

What Are the Sources of Contaminants?

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

- Microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, that can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, may come from a variety of

sources such as agriculture, urban stormwater runoff, and residential uses.

- Organic chemical contaminants, including synthetic and volatile organic chemicals, that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural applications, and septic systems.
- Radioactive contaminants, that can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (U.S. EPA) and the State Water Resources Control Board (State Water Board) prescribe regulations that limit the number of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration regulations and California law also establish lim-

Cross-Connection Control

The District's Cross-Connection Control Program requires backflow prevention assembly devices to be installed where a degree of hazard has been identified, as they prevent potential contamination of the drinking water from backflow or back-siphonage conditions. Backflow prevention devices must be installed and maintained to comply with Title 17, California Code of Regulations, Federal Safe Water Act of 1974 and the District's water code. If you are unsure if your property requires a backflow device, please contact MCWD at (831) 384-613 to arrange a site visit with our Cross-Connection Control Specialist.

To learn more about about how backflow preventers protect water quality, please visit: https://www.mcwd.org/water_quality.html.

How to Read Your Water Meter

Knowing how to read your water meter is an important way to use water wisely and detect hidden leaks. Water meters are typically located near the curb of the house/ business and are in an underground box labeled Water. After carefully removing the lid of the box and cap of the water meter, you will find the display of the water meter. To learn more about how to read your water meter, please visit <https://www.mcwd.org>.

Examples of a backflow device (below) and a water meter (right).



its for contaminants in bottled water that provide the same protection for public health.

A note to the Immuno-compromised: 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 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 healthcare providers. U.S. EPA/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).

How to Read Water Quality Tables

The following tables list the results of detected contaminants in the District's distribution system and groundwater supply wells. While most monitoring was completed through December 2023, regulations allow the District to monitor certain chemicals less than once per year because the levels do not change frequently. The test results are divided into the following sections: *Primary Drinking Water Standards*, *Secondary Drinking*

Water Standards, *Other Constituents*, and *Unregulated Contaminants*. To help better understand the report, use the *Definitions of Terms* given below.

To read the table, start with the column titled *Detected Contaminant(s)* and read across the row. Units express the amount measured. MCL shows the highest amount of contaminant allowed. *PHG/MCLG* is the goal amount for that contaminant (this may be lower

than what is allowed). *Year Tested* is usually in 2023 or for some contaminants, the most recent sampling year. *Annual Average* is the average amount measured or detected. Range tells the lowest and highest amounts measured. A *No Violation* indicates that regulatory requirements were met. *Major Sources in Drinking Water* tell where the contaminant usually originates.

Distribution System Water Quality

PRIMARY DRINKING WATER STANDARDS — Microbiology

Detected Contaminant	Units	MCL	(MCLG)	Year Tested	Total Samples Collected & Month Positive	Violation	Major Sources in Drinking Water
Total Coliform Bacteria	Positive Samples	TT	(0)	2023	523 Samples 1 Positive Sample	No	Naturally present in the environment.

PRIMARY DRINKING WATER STANDARDS — Disinfection Byproducts & Disinfectant Residual

Detected Contaminants	Units	MCL [MRDL]	PHG (MCLG) [MRDLG]	Year Tested	Annual Average	Range Low - High	Violation	Major Sources in Drinking Water
Total Trihalomethanes (TTHM)	ug/L	80	n/a	2023	8.4 ^(a)	2.0 - 9	No	Byproduct of drinking water disinfection.
HAA5 [Sum of 5 Haloacetic Acids]	ug/L	60	n/a	2023	0.75 ^(a)	ND - 3	No	Byproduct of drinking water disinfection.
Chlorine Residual [as Cl ₂]	mg/L	[4.0]	[4]	2023	0.95	0.41 - 1.79	No	Drinking water disinfectant added for treatment.

PRIMARY DRINKING WATER STANDARDS — Lead & Copper Indoor Tap Samples

Detected Contaminant	Units	Action Level	PHG	Year Tested	90th Percentile ^(*)	Range Low - High	Violation	Number of Schools Requesting Lead Sampling	Major Sources in Drinking Water
Copper	mg/L	1.3	0.3	2022	0.2	30 sites sampled; 0 over the AL	No	0	Internal corrosion of household plumbing systems.
Lead	ug/L	15	0.2	2022	0.99	30 sites sampled; 0 over the AL	No	0	Internal corrosion of household plumbing systems.

(a) Average is calculated by the highest running annual average.

(*) 90th Percentile Level: For compliance, the sample result at the 90th percentile must be less than the Action Level.

Definitions of Terms Used

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 the odor, taste, and appearance of drinking water.

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 below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Primary Drinking Water Standards (PDWS): MCLs, MRDLs and treatment techniques (T.T.s) 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 the addition of a disinfectant is necessary for the 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. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Regulatory Action Level (A.L.): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water supplier must follow.

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

UCMR: Unregulated Chemicals Monitoring Rule that helps EPA and CDPH to determine where certain contaminants occur and need to be regulated.

MRL: Method Reporting Limit or the lower limit of quantitation

n/a: Not Applicable

ND: Non-Detected

Notification Level: DDW established health-based advisory levels for chemicals in drinking water that lack maximum contaminant levels

NTU: Nephelometric Turbidity Units

pCi/L: Picocuries per liter

mg/L: Milligrams per liter

ug/L: Micrograms per liter

ng/L: Nanograms per liter

TON: Threshold Odor Number

Units		Equivalence
mg/L – milligrams per liter	ppm – parts per million	1 second in 11.5 days
µg/L – micrograms per liter	ppb – parts per billion	1 second in nearly 32 years
ng/L – nanograms per liter	ppt – parts per trillion	1 second in nearly 32,000 years
pg/L – picograms per liter	ppq – parts per quadrillion	1 second in nearly 32,000,000 years

Groundwater Supply Wells Water Quality

Detected Contaminants	Units	MCL	PHG (MCLG)	Year Tested	Annual Average	Range Low - High	Violation	Major Sources in Drinking Water
PRIMARY DRINKING WATER STANDARDS								
Arsenic	ug/L	10	0.004	2023	3.2	ND - 6.5	No	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes.
Fluoride (Natural)	mg/L	2.0	1	2023	0.2	0.11 - 0.24	No	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories.
Gross Alpha Particle Activity	pCi/L	15	(Zero)	2023	2.7	ND - 7.08	No	Erosion of natural deposits.
Gross Beta Particle Activity	pCi/L	50	(Zero)	2023	7.5	4.8 - 8.91	No	Decay of natural and man-made deposits.
Nitrate (as N)	mg/L	10	10	2023	2.0	ND - 5.7	No	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits.
Selenium	ug/L	50	30	2023	0.8	ND - 5.5	No	Discharge from petroleum, glass, and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive).
Trichloroethylene [TCE]	ug/L	5	1.7	2023	0.4	ND - 2.3	No	Discharge from metal degreasing sites and other factories.
Uranium	pCi/L	20	0.43	2023	1.4	ND - 5.8	No	Erosion of natural deposits.
SECONDARY DRINKING WATER STANDARDS								
Chloride	mg/L	500	n/a	2023	103.1	60 - 200	No	Runoff/leaching from natural deposits; seawater influence.
Odor	TON	3	n/a	2023	0.6	ND - 8 ^(a)	No	Naturally-occurring organic materials
pH Units	Units	6.5 - 8.5	n/a	2023	8.0	7.8 - 8.3	No	Naturally-occurring minerals.
Specific Conductance	µS/cm	1600	n/a	2023	668.6	490 - 980	No	Substances that form ions when in water; seawater influence.
Sulfate	mg/L	500	n/a	2023	52.1	32 - 64	No	Runoff/leaching from natural deposits; industrial wastes.
Total Dissolved Solids	mg/L	1000	n/a	2023	392.9	300 - 540	No	Runoff/leaching from natural deposits.
Turbidity	NTU	5	n/a	2023	0.1	ND - 0.25	No	Soil run-off.
OTHER CONSTITUENTS — No Drinking Water Standards								
Alkalinity	mg/L	n/a	n/a	2023	125	95 - 180	n/a	Naturally-occurring minerals.
Bicarbonate Alkalinity	mg/L	n/a	n/a	2023	125	95 - 180	n/a	Naturally-occurring minerals.
Calcium	mg/L	n/a	n/a	2023	43.3	23 - 70	n/a	Naturally-occurring minerals.
Magnesium	mg/L	n/a	n/a	2023	14.4	6.1 - 21.0	n/a	Naturally-occurring minerals.
Potassium	mg/L	n/a	n/a	2023	2.5	1.8 - 3.3	n/a	Naturally-occurring minerals.
Sodium	mg/L	n/a	n/a	2023	65.6	40 - 110	n/a	Naturally-occurring minerals.
Hardness ^(b)	mg/L	n/a	n/a	2023	167.1	82 - 260	n/a	Naturally-occurring minerals.
UNREGULATED CONTAMINANTS — No Drinking Water Standards								
Boron	ug/L	n/a	n/a	2023	57.1	ND - 180	n/a	Erosion of natural deposits.
Bromide	mg/L	n/a	n/a	2021/ 2022 ^(c)	0.3	0.2 - 0.6	n/a	Naturally-occurring minerals.
Hexavalent Chromium	ug/L	n/a	0.2	2023	3.1	ND - 7.2	n/a	Industrial process byproduct; erosion of natural deposits.
Vanadium	ug/L	n/a	n/a	2023	6.6	ND - 15	n/a	Erosion of natural deposits.

Footnotes:

(a) Compliance for the Odor MCL is based on a running annual average, and results must be at or exceed 3 TON to be a violation of the MCL. The initial sample from well 11 in 2023 was 8 TON, followed by two confirmation samples at 1 TON and Non-Detect.

(b) Water hardness unit conversion: 17.1 GPG/mg/L Total hardness (annual average) = 9.8 grains/gallon (GPG); Total hardness (range) = 4.79 GPG - 15.20 GPG.

(c) Well 31 sampled in 2021, all other wells were sampled in 2022.

Unregulated Contaminant Monitoring – UCMR5

WELLS POST-TREATMENT

Detected Contaminants	Units	Year Tested	Annual Average	Range Low - High	Violation	Major Sources in Drinking Water
Lithium	ug/L	2023	28.9	21.8 - 40.9	n/a	Naturally occurring metal that may concentrate in brine waters; lithium salts are used as pharmaceuticals, used in electrochemical cells, batteries, and in organic syntheses.

No other samples taken in the UCMR5 study exceeded detection levels. **The full Unregulated Contaminant Monitoring Report (UCMR5) report is available by visiting our website at https://www.mcwd.org/water_quality.html.**



(Left) Operator exercising generator to ensure uninterrupted service during a power outage. (Above) Operator testing backflow device to ensure proper function.

Educational Information and Special Health Information

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the U.S. EPA's Safe Drinking Water Hotline (1-800-426-4791).

Other Water Information Sources

State Water Resources Control Board Division of Drinking Water Programs:

waterboards.ca.gov/drinking_water/programs

USEPA Division of Ground Water and Drinking Water:

water.epa.gov/drink

Centers for Disease Control: cdc.gov

Fort Ord Cleanup Project: fortordcleanup.com