

arina Coast Water District is proud to present the 2010 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 our Water Quality Chemist, Thomas Barkhurst at 384-6131. You can also visit our website at www.mcwd.org.

Water Supply and Treatment

he District provides groundwater produced from six wells delivered through a distribution system network of eight storage tanks and one hundred sixty miles of pipeline.

Three deep supply wells (10, 11, and 12) located in Central Marina draw groundwater from the 900-foot aquifer of the Salinas Valley Groundwater Basin. The groundwater is treated at each well site for disinfection and to remove the naturally occurring hydrogen sulfide that can sometimes cause odor problems.

1,000 -

Three supply wells (29, 30, and 31) located in the Ord Community draw groundwater from the 400-foot and lower 180-foot aquifers of the Salinas Valley Groundwater Basin. Groundwater from these supply wells is also disinfected in the Ord Community chlorination treatment plant.

In 2005, the Central Marina and Ord Community vater systems were connected to allow water to flow between the systems to meet peak demands and improve overall services.

Marina's Desalination Plant did not operate in 2009, but is capable of providing up to thirteen percent of Central Marina's annual water demand.

1,000 - 1,000

2010 Well Production

Nater Supply Assessment and Protection

The District remains committed and encourages our customers to be vigilant and join our efforts to protect our precious water resources.

In July 2001, the California Department of Public Health (CDPH) completed an assessment of each groundwater supply well in Central Marina, which concluded they are most vulnerable to historic waste dumps, landfill activities and military installations. The desalination plant seawater intake well is considered most vulnerable.

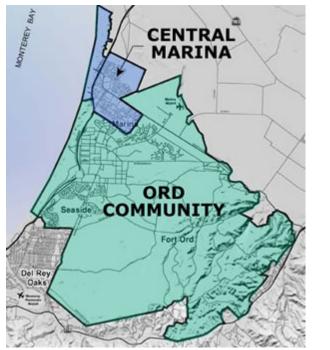
Cover Photo: Obtaining a water sample.

Samples throughout the distribution system are regularly tested.

able to salt water intrusion and to contaminants associated with injection wells.

In February 2002, an assessment was completed of the groundwater supply wells in the Ord Community. The well field is considered to be most vulnerable to known volatile organic contaminant plumes from the closed landfill on the former Fort Ord, as well as most vulnerable to saltwater intrusion, sewer collection system, above ground storage tanks, irrigated crops, transportation corridors, farm machinery repairs and septic systems.

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





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Mission Statement: Providing high quality water, wastewater and recycled water services to the District's expanding communities through management, conservation and development of future resources at reasonable costs

Board meetings are open to the public and held the second Tuesday of every month at the District office, 11 Reservation Road (Marina State Beach) at 6:45 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.

Este informe contiene informacion muy importante sobre su agua potable. Traduzcalo o hable con alquien que lo entiende bien.

Water Quality Monitoring

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

Federal Unregulated Contaminants Monitoring Rule-2 (UCMR-2)

In 2009, the District completed testing for ten UCMR-2 chemicals specified by the US Environmental Protection Agency (USEPA). The UCMR-2 chemicals were not detected in Central Marina and Ord Community. The results were reported directly to the USEPA and are also available at our website at www.mcwd.org/ccr2010-ND.html

Federal Groundwater Rule

The CDPH started implementing the Federal Groundwater Rule (GWR) on December 1, 2009. The purpose of the GWR is to reduce the risk of illness caused by microbial contamination in public groundwater systems. The District is pleased to report that coliforms were not detected in all but one of the required 523-distribution system samples collected in Central Marina and Ord Community.

Trichloroethylene (TCE)

TCE was a common solvent used by the US Army on the former Fort Ord. In 2010, TCE (below the MCL or standard) was detected in District's supply Well No. 29, 30, and 31, and also in the Intermediate and Sand Tanks. With the interconnection of the two water systems, the Intermediate and Sand Tanks may supply drinking water to Central Marina and Ord Community distribution systems.

The Army operates a network of shallow groundwater monitoring wells to track progress in its ongoing cleanup of the TCE contamination plume from the now-closed landfill and fire drill area. The Army groundwater monitoring wells do not supply drinking water to District customers. TCE was detected in a majority of the Army's groundwater monitoring wells. In addition to quarterly monitoring of the Army's groundwater monitoring wells, the District's supply Well No. 29, 30 and 31 and the Intermediate and Sand Tanks are also monitored quarterly.

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.

If present, elevated levels of lead can cause serious health

Lead

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. 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 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/safewater/lead.

Radon is a naturally occurring radioactive gas that you

A Notice on Radon

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. Radion 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 contributor to 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, 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 EPA Safe Drinking Water Act Hotline (1-800-426-4791), or the National Safe Council Radon Hotline (1-800-SOS-RADON).

he sources of drinking water, both tap and bottled water, include rivers, lakes, streams, ponds, researcer in surface of the land or through the ground, it dissolves

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

What Are the Sources of Contaminants?

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, that 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 application, 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 USEPA and the State Department of Public Health (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits 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. Immunocompromised 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 USEPA Safe Drinking Water Hotline (1-800-426-4791).



The MCWD Customer Service staff is available to assist you 8:00 a.m. to 5:30 p.m. Monday through Friday, excluding

Educational Information and Special Health Information

Prinking 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 heath 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).



Water Quality Chemist analyzing a water sample

How to Read Water Quality Tables

supply wells. While most monitoring was completed through Definitions of Terms given below. December 2010, regulations allow the District to monitor following sections: Primary Drinking Water Standards, Secondary taminant allowed. PHG/MCLG is the goal amount for that where the contaminant usually originates.

in the District's distribution system and groundwater Contaminants. To help better understand the report, use the Tested is usually in 2010 or, for some contaminants, the most recent sampling year. Annual Average is the average amount To read the table, start with the column titled *Detected* measured or detected. *Range* tells the lowest and highest certain chemicals less than once per year because the levels Contaminant(s) and read across the row. Units express the amounts measured. A no Violation indicates that regulation do not change frequently. The test results are divided into the amount measured. MCL shows the highest amount of con-requirements were met. Major Sources in Drinking Water tell

Detected Contaminant	Units	MCL	(MCLG)	Year Tested	Total Samples Collected & Month Positive		Violation	Major Sources in Drinking Water
Total Coliform Bacteria	Positive Samples	5.0% Monthly Samples	(0)	2010	523 Samples 1- Positive (2.3%) in April		No	Naturally present in the environment.
PRIMARY DRINKING	WATER		RDS — Disii					ual
Detected Contaminants	Units	MCL [MRDL]	PHG (MCLG) [MRDLG]	Year Tested	Annual Average	Range Low - High	Violation	Major Sources in Drinking Water
Total Trihalomethanes (THM's)	ppb	80	n/a	2010	12.4	1.4 - 40	No	Byproduct of drinking water disinfection.
Haloacetic Acids (HAA's)	ppb	60	n/a	2010	0.5	ND - 3.8	No	Byproduct of drinking water disinfection.
Chlorine Residual [as Cl ₂]	ppm	[4.0]	[4]	2010	0.64	0.04 - 2.20	No	Drinking water disinfectant added for treatment.

Chlorine Residual [as Cl ₂]	ppm	[4.0]	[4]	2010	0.64	0.04 - 2.20	No	Drinking water disinfectant added for treatment.
PRIMARY DRINKING	WATER		RDS — Lead					
Detected Contaminant	Units	Action Level	PHG	Year Tested	* 90th Percentile Level	No. of Sites Above Action Level	Violation	Major Sources in Drinking Water
Copper	ppm	1.3	0.17	2010	0.22	0 of 32	No	Internal corrosion of household plumbing systems.

* 90th Percentile: For compliance, the sample result at the 90th percentile level must be less than the Action Level for copper at 1.3 ppm. Action Level for lead is set at 15 ppb. Lead was not detected in Central Marina and Ord Community indoor tap water samples.

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 and ments that a water supplier must follow. MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment require-

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 ND: Not detectable at testing limit 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 con-

Regulatory Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other require-

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

n/a: Not applicable

NTU: Nephelometric Turbidity Units (measure of clarity or tur-

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

ppm: parts per million, or milligrams per liter

ppb: parts per billion, or micrograms per liter

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		PANA		AACHEL CAL	actific y

Detected Contaminants	Units	MCL	PHG (MCLG)	Year Tested	Annual Average	Range Low - High	Violation	Major Sources in Drinking Water	
PRIMARY DRINKING WATE	R STAND	ARDS			_				
Arsenic	ppb	10	0.004	2010	3.5	ND - 6.4	No	Erosion of natural deposits.	
Fluoride (Natural)	ppm	2.0	1	2010	0.15	ND - 0.23	No	Erosion of natural deposits.	
Nitrate (NO ₃)	ppm	45	1	2010	5.2	ND - 20	No	Erosion of natural deposits.	
Radium 228	pCi/L	5=Tot Rad (a)	0	2005	ND	ND - 1.4	No	Erosion of natural deposits.	
Trichloroethylene (TCE)	ppb	5	1.7	2010	ND	ND - 1.4	No	Discharge from metal degreasing.	
SECONDARY DRINKING WATER STANDARDS									
Chloride	ppm	500	n/a	2010	92	53 - 130	No	Natural deposits; seawater influence.	
Odor Threshold	TON	3	n/a	2010	ND	ND - 3	No	Naturally-occurring organic materials.	
pH Units	Units	6.5 - 8.5	n/a	2010	8.1	8.0 - 8.3	No	Naturally-occurring minerals.	
Specific Conductance	μS/cm	1600	n/a	2010	650	490 - 760	No	Formed ions when in water; seawater infl	
Sulfate	ppm	500	n/a	2010	49	24 - 62	No	Naturally-occurring minerals.	
Total Dissolved Solids	ppm	1000	n/a	2010	408	300 - 550	No	Naturally occurring minerals and metals.	
Turbidity	NTU	5	n/a	2010	0.11	0.064 - 0.22	No	Soil run-off.	
OTHER CONSTITUENTS -									
Alkalinity	ppm	n/a	n/a	2010	122	102 - 150	n/a	Naturally-occurring minerals.	
Calcium	ppm	n/a	n/a	2010	42	16 - 75	n/a	Naturally-occurring mineral.	
Magnesium	ppm	n/a	n/a	2010	11	0.31 - 20	n/a	Naturally-occurring mineral.	
Potassium	ppm	n/a	n/a	2010	2.8	1.9 - 3.8	n/a	Naturally-occurring mineral.	
Sodium	ppm	n/a	n/a	2010	70	39 - 130	n/a	Naturally-occurring mineral.	
Hardness ^(b)	ppm	n/a	n/a	2010	156	43 - 280	n/a	Naturally-occurring minerals.	
Radon 222	pCi/L	n/a	n/a	2000	532	208 - 1408	n/a	Naturally-occurring gas.	
UNREGULATED CONTAMIN									
Boron	ppb	1000 (AL)	n/a	2010	37	ND - 170	n/a	Erosion of natural deposits.	
Chromium, Cr VI Screen	ppb	n/a	n/a	2004	3.4	1.3 - 5.9	n/a	Erosion of natural deposits.	
Vanadium	ppb	50 (AL)	n/a	2010	4.9	ND - 8.3	n/a	Erosion of natural deposits.	

(a) Total Radium is the sum of Radium 226 and Radium 228. The PHG for RA-226 is 0.05 pCi/L and 0.019 pCi/L for RA-228 (b) Water Hardness Unit Conversion: 156 ppm = 9.1 grains/gallon

* 90th Percentile: For compliance, the sample result at the 90th percentile level must be less than the action level for copper at 1.3 ppm. Action level for lead is set at 15 ppb. Lead was not detected in Central Marina and Ord Community indoor tap water samples.

Not Detected Chemicals:

The list of chemicals tested, but not detected are reported at:

www.mcwd.org/2010ccr-ND.html

