









CONSUMER CONFIDENCE REPORT 2003

ISSUED JUNE 2004



ABOUT THIS CONSUMER CONFIDENCE REPORT

This brochure is a snapshot of the water quality Eastern Municipal Water District (EMWD) provided during calendar year 2003. We want you to have this information because informed customers make better decisions as regulations change. For more information about your water from EMWD, call Amy Mora, Environmental Compliance Analyst II, (951) 928-3777, ext. 6337.

This report explains:

- EMWD's drinking water sources and quality
- Regulations that protect our health
- Programs that protect the high quality of our supply sources

Eastern Municipal Water District is committed to providing a reliable supply of high-quality drinking water. Drinking water supplied by EMWD meets high standards established by state and federal agencies.

During 2003, EMWD staff collected 5,523 drinking water samples. EMWD's lab staff and contract laboratories performed 32,683 tests on those samples.

The operations budget for EMWD's laboratory is about \$1.1 million for the 2003-04 fiscal year. Highly trained microbiologists, chemists and water analysts work hard to make sure EMWD customers can depend on high-quality water.

Results of freshwater monitoring during 2003 are found in the tables of this report.

Knowing the Source of Your Tapwater

The sources of drinking water (both tapwater and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As an EMWD customer, your tapwater comes from one of three service areas: the Mills Service area in the northwest portion of the District, the Skinner Service area in the southern portion of the District, and the East Valley Service area in the northeast portion of the District. To find your service area, see the map on the back cover.

In the Mills and Skinner service areas, the water is primarily imported surface water treated at regional treatment plants or is supplied from EMWD's own groundwater resources. Menifee and Sun City typically receive their tapwater from either the Skinner or Mills plants, or from EMWD's new Menifee Desalination Plant. This additional new supply draws on groundwater that is high in salts—specifically Total Dissolved Solids. Through reverse osmosis, any contaminants that exceed their maximum contaminant levels (MCL) are removed. The product water from desalination is similar in quality to distilled water. That water is blended with other local supplies to create drinking water that is comparable to imported water supplies.

In the East Valley service area, the water is entirely from EMWD wells.

The Henry J. Mills Filtration Plant and the Robert F. Skinner Filtration Plant are owned and operated by The Metropolitan Water District of Southern California. Treated water from these plants is purchased by EMWD and delivered to its customers through the areas listed below.

MILLS SERVICE AREA

Mills Filtration Plant

(Water supplied solely from Northern California through the State Water Project): Serves Moreno Valley, Menifee, Perris, Sun City, Good Hope, Mead Valley, Lakeview, Nuevo, Romoland, North Canyon Lake and Quail Valley.

Perris Water Filtration Plant and Well 55

(Eastern Perris area, blended Colorado River water with Mills water): Serves Perris, Romoland, Lakeview and Nuevo. Colorado River water is filtered through membranes to remove particulate contaminants and blended with Well 55 on site.

Well 44 and Well 49

(Moreno Valley area, blended with Mills water): Two wells serve only a small area in Moreno Valley. Well 56 and Well 57

(Located in Perris, blended with Mills water): Service is limited to the immediate surrounding neighborhood.

(Located in Sun City): Serves Sun City, Menifee, Canyon Lake and Quail Valley. Brackish well water is treated through Reverse Osmosis membranes to remove salts.

SKINNER SERVICE AREA

(Generally 80% Colorado River and 20% Northern California): Serves Murrieta, Murrieta Hot Springs, and occasionally Menifee and southern Sun City. This source is available to supplement supply in the East Valley area.

EAST VALLEY SERVICE AREA

This system of 13 wells serves most of the San Jacinto Valley, including much of Hemet and San Jacinto, Soboba Hot Springs, Valle Vista, Homeland, Juniper Flats, Green Acres, Diamond Valley and Winchester.



THE WATER WE DRINK

The U.S. Congress has directed the Environmental Protection Agency (EPA) to require public water systems to report annually on the quality of the drinking water they serve. Eastern Municipal Water District (EMWD) enthusiastically supports this requirement and has provided consumer confidence reports and other water quality data to all of its customers for måny years.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.









EMWD DISTRIBUTION SYSTEM											
	Parameter	Units	State MCL [MRDL]	PHG (MCLG) [MRDLG]	State DLR	Range Average	Dist'n System- Wide	Mills Area	East Valley A rea	Skinner Area	Major Sources in Drinking Water
	PRIMARY STANDA	ARDS—I	M ANDATORY	HEALTH-REL	ated Stan	IDARDS					
	MICROBIOLOGICAL	L									
	Total Coliform Bacteria	%	5.0 (a)	(0)	NA	Range Average	0 - 1.1 0.34	NA NA	NA NA	NA NA	Naturally present in the environment
	Fecal Coliform and E. coli	(b)	(b)	(0)	NA	Range Average	0 0	NA NA	NA NA	NA NA	Human and animal fecal waste
	DISINFECTION BY-	PRODUC	CTS AND D	DISINFECTA	NT RESI	DUALS					
	Total Trihalomethanes (TTHM) (c)	ppb	80	NA	0.5	Range RAA	1.9-85 38.9	2.3-85 42.7	1.9-49 18.7	30-67 46.2	By-product of drinking water chlorination
	Haloacetic Acids (five) (HAA5) (c,d)	ppb	60	NA	1 (d)	Range RAA	1.1-50.9 20.6	1.1-38 20.7	2.1-24 10.0	10-50.9 33.3	By-product of drinking water chlorination
	Total Chlorine Residual	ppm	[4]	[4]	NA	Range Average	ND-3.8 1.6	ND-3.8 1.7	ND-3.6 0.9	ND-3.5 2.4	Drinking water disinfectant added for treatment
	PHYSICAL PARAM	ETERS									
	Color	Units	15	NA	NA	Range Average	<2.5-12.5 2.6	<2.5-7.5 2.66	<2.5-12.5 2.75	<2.5-5 2.38	Naturally occurring organic materials
	Odor Threshold	Units	3	NA	NA	Range Average	1 1	1 1	1 1	1 1	Naturally occurring organic materials
	Turbidity (Weekly)	NTU	5	NA	NA	Range Average	$0.05-6.3 \\ 0.13$	0.05-1.5 0.14	0.05-6.3 0.21	0.05-0.63 0.11	Soil runoff
	pН	pH Units	NA	NA		Range Average	6.71-8.58 8.03	6.71-8.58 8.07	7.25-8.37 7.88	7.08-8.52 7.98	
	METALS (e,m)										
	Copper	ppm	AL=1.3	0.17	0.05	NA	90th percentile of 50 samples: 0.23 ppm Internal corrosion of household pipes; erosion of natural deposits				
	Lead	ppb	AL=15	2	5	NA	I I I I I I I I I I I I I I I I I I I				Internal corrosion of household pipes; erosion of natural deposits
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See page 4 for Footnotes and page 10 for Definitions.

Notes

The Distribution System samples represent samples that were taken weekly (Microbiological, Physical and Disinfection Residuals), quarterly (Disinfection By-Products) or every three years (Metals) in our distribution system. The other tables in this report are of samples taken either at the source or just after treatment and before it enters the distribution system. We sample the distribution system to look for any changes in the water quality that may indicate excessive water age, contamination, or excessive corrosivity of the water.

California Action Level CFU/mL Colony Forming Units per milliliter Detection Limits for purposes of Reporting Haloacetic Acids (five) MCL Maximum Contaminant Level Maximum Contaminant Level Goal MRDL Maximum Residual Disinfectant Level **MRDLG** Maximum Residual Disinfectant Level Goal Nitrogen Not Applicable NA ND None Detected

NTU Nephelometric Turbidity Units pCi/L picoCuries per liter PHG Public Health Goal parts per billion or micrograms ppb per liter (µg/L) parts per million or milligrams per liter (mg/L) ppt parts per trillion or nanograms per liter (ng/L) RAA Running Annual Average SI

ABBREVIATIONS

Saturation Index (Langelier) TOC Total Organic Carbon TTHM Total Trihalomethanes Treatment Technique umho/cm micromho per centimeter

EAST VALLEY SERVICE AREA: SERVING HEMET, SAN JACINTO, DIAMOND VALLEY, GREEN ACRES, HOMELAND, JUNIPER FLATS, SOBOBA HOT SPRINGS, VALLE VISTA AND WINCHESTER SKINNER SERVICE AREA: SERVING MENIFEE, MURRIETA, MURRIETA HOT SPRINGS, SOUTHERN SUN CITY AND WINCHESTER

FOOTNOTES

- (a) Total coliform MCLs: No more than 5.0% of the monthly samples may be total coliform-positive. Compliance is based on the combined distribution system sampling from all service areas. In 2003, 2,450 samples were analyzed. The MCL was not violated.
- (b) Fecal coliform/E.coli MCLs: The occurrence of 2 consecutive total coliform-positive samples, one of which contains fecal coliform/E. coli, constitutes an acute MCL violation. The MCL was not violated in 2003.
- (c) Average and range for the Mills and Skinner filtration plant effluents were taken from weekly samples for TTHM and monthly samples for HAA5. Distribution system-wide average and range were taken from 28 samples collected quarterly.
- (d) DLR = 1.0 ppb for each HAA5 analyte (dichloroacetic acid, trichloroacetic acid, monobromoacetic acid, and dibromoacetic acid) except for monochloroacetic acid which has a DLR=2.0 ppb.
- (e) Data for Copper and Lead distribution system samples are from 2001.
- (f) The turbidity level of the filtered water shall be less than or equal to 0.3 NTU in 95% of the measurements taken each month and shall not exceed 1.0 NTU at any time. Turbidity is a measure of the cloudiness of the water and is a good indicator of water quality and filtration performance.
- (g) Aluminum and MTBE have both primary and secondary standards. The secondary MCL for aluminum is 200 ppb, and for MTBE is 5 ppb.
- (h) MTBE reporting level is 0.5 ppb.
- (i) State MCL is 45 mg/L as nitrate, which equals 10 mg/L as N.
- (j) Results based on the 2002-2003 four-quarter radiological monitoring program for Skinner and Mills Plants, and 2002 four-quarter radiological monitoring program for East Valley Wells and Wells 49, 56, 57 and 75, and 2001 fourquarter monitoring for Well 55.
- (k) Standard is for Radium-226 and -228 combined.
- (l) Bromate compliance monitoring began in October 2003. Range values based on weekly samples. Running annual average will be calculated after four consecutive quarters of samples have been collected by third quarter 2004.
- (m) A sequestering agent is added to the wells in East Valley to control the corrosivity of the water. All other wells listed as "corrosive" are blended with the "non-corrosive" waters either from Mills or Skinner Filtration Plants. Evidence of corrosion control is compliance with the Lead and Copper Action Levels listed in the Distribution System table. The sequestering agents are also used in East Valley to hold iron and manganese in solution.
- (n) Metropolitan has developed a flavor-profile analysis method that can more accurately detect odor occurrences. For more information, contact MWD at (213) 217-6850.
- (o) TOCs at the Mills and Skinner filtration plants were taken at the filter effluents.
- (p) Samples taken for perchlorate at Well 57 in 2002.
- (q) HPC values were based on the monthly averages of the Mills and Skinner plant effluent samples.



State PHG Skinner East Valley MCL (MCLG) State Plant Wells Parameter Units [MRDL] [MRDLG] DLR Average (Range) Average (Range) Major Sources in Drinking Water	INICIA TIOT SPRINGS, SOUTHERN SON CITT AND WINCHESTER	
Tarantoci Trotago (tomigo) Trotago (tomigo) Trotago (tomigo) Trotago (tomigo) Trotago (tomigo) Trotago (tomigo)		
Percent of total water delivered by EMWD % NA NA NA NA 27.61 14.14		
Percent State Project Water % NA NA NA 33 (19-46) NA		
PRIMARY STANDARDS—Mandatory Health-Related Standards		
CLARITY		
Combined Filter Effluent Turbidity highest NTU 0.3 (f) NA NA 0.09 NA Soil runoff %<0.3 NTU 95% (f) NA NA 100% NA		
VOLATILE ORGANIC COMPOUNDS		
Methyl- <i>tert</i> -butyl ether (MTBE) (g,h) ppb 13 13 3 ND (ND-0.5) ND Gasoline discharges from watercr	ıft engines	
INORGANIC CHEMICALS	8	
Aluminum (g) ppb 1000 600 50 ND ND (ND-54) Residue from water treatment pro	cess; natural deposits; erosion	
Arsenic ppb 50 NA 2 ND ND (ND-4) Natural deposits erosion, glass & e	lectronics production wastes	
Barium ppm 1 2 0.1 ND ND (ND-0.11) Oil and metal refineries discharge	s; natural deposits erosion	
Fluoride ppm 2 1 0.1 0.22 (0.15-0.27) 0.28 (0.1-0.6) Erosion of natural deposits; water		
Lead ppb AL=15 2 5 ND ND (ND-43) Internal corrosion of household pig		
Nickel ppb 100 12 10 ND 32 (11-48) Erosion of natural deposits; discha		
Nitrate (as N) (i) ppm 10 10 0.4 ND 1.7 (ND-8.7) Runoff and leaching from fertilized Selenium ppb 50 (50) 5 ND ND (ND-8) Refineries, mines, and chemical w	r use; sewage; natural erosion	
	aste discharges, runon	
RADIOLOGICALS (j) Construction Author Dentists Authority and City		
Gross Alpha Particle Activity pCi/L 15 NA 1 3.41 (2.99-3.96) 2.45 (ND-4.72) Erosion of natural deposits Gross Beta Particle Activity pCi/L 50 NA 4 ND (ND-4.08) ND Decay of natural and man-made of	an agita	
Gross Beta Particle Activity pCi/L 50 NA 4 ND (ND-4.08) ND Decay of natural and man-made of Combined Radium (k) pCi/L 5 NA 0.5 ND (ND-0.51) ND Erosion of natural deposits	eposits	
Uranium pCi/L 20 0.5 2 ND (ND-2.39) ND Erosion of natural deposits		
DISINFECTION BY-PRODUCTS THE THIRD IN THE PRODUCT SERVICE OF THE PRODUCT SERVICE SERVICE SERVICE OF THE PRODUCT SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE		
Total Trihalomethanes (TTHM) ppb 80 NA 0.5 45 (32-61) (c) ND By-product of drinking water chl		
Haloacetic Acids (five) (HAA5) ppb 60 NA 1 (d) 16 (11-20) (c,d) NA By-product of drinking water chlorology	rination	
SECONDARY STANDARDS— Aesthetic Standards		
Chloride ppm 500 NA NA 81 (76-92) 23 (8.4-89) Runoff/leaching from natural dep		
Color Units 15 NA NA 2 (1-3) 3.7 (<2.5-10) Naturally occurring organic mate		
Corrosivity (m) SI >0 NA NA 0.30 (0.20-0.36) 0.03 (-0.41-0.43) Elemental balance in water; affecte		
Corrosivity (m) SI corrosive NA NA non-corrosive non-corrosive Elemental balance in water; affecte Iron ppb 300 NA 100 ND ND (ND-440) Leaching from natural deposits; in		
	dustriai wastes	
Manganese ppb 50 NA 20 ND ND (ND-140) Leaching from natural deposits Odor Threshold Units 3 NA NA (n) 1 Naturally occurring organic mate	inle	
Specific Conductance µmho/cm 1600 NA NA 820 (740-920) 450 (270-900) Substances that form ions in water		
Sulfate ppm 500 NA 0.5 171 (147-206) 50 (10-220) Runoff/leaching from natural dep		
Total Dissolved Solids (TDS) ppm 1000 NA NA 490 (440-560) 280 (180-580) Runoff/leaching from natural dep		
Turbidity NTU 5 NA NA 0.06 (0.05-0.07) 0.3 (<0.1-1.9) Soil runoff	oord, seawater infractice	
UNREGULATED CHEMICALS REQUIRING MONITORING		
Boron ppb NA AL=1,000 100 130 (110-140) ND Runoff/leaching from natural dep	ocite: industrial wastes	
Chromium VI ppb NA NA 1 ND 1.5 Industrial waste discharge	osio, maastrar wastes	
Trichloropropane (1,2,3-TCP) ppt NA AL=5 5 ND 6 (ND-53) Industrial waste discharge and per	ticide uses	
Vanadium ppb NA AL=50 3 ND 9.1 Naturally occurring; industrial was		
ADDITIONAL PARAMETERS	0	
MICROBIAL CONTAMINANTS		
HPC (q) CFU/mL TT NA NA <1 (<1-2) NA Naturally present in the environm	ont	
OTHER PARAMETERS	CIIL	
AW 10 (100 (100 (100 (100 (100 (100 (100		
Alkalinity ppm NA NA 112 (100-124) 135 (100-200) Calcium ppm NA NA 54 (49-64) 48 (24-87)		
Calcium ppm NA NA 54 (49-64) 48 (24-87) Hardness ppm NA NA 227 (209-264) 142 (68-290)		
Hardness grains/gallon NA NA 13 (12-15) 8.3 (3.9-17)		
Magnesium ppm NA NA 22.5 (21-26) 5.5 (1.8-17)		
pH Units NA NA 8.06 (8.04-8.08) 7.6 (6.6-8.4)		
Potassium ppm NA NA 3.9 (3.6-4.3) 3.5 (1.8-7.6)		
Radon (j) pCi/L NA NA 100 ND 220 (8.68-293)		
Sodium ppm NA NA 76 (66-89) 36 (12-83) TOC (o) ppm TT NA 0.7 2.4 (2.0-2.7) ND (ND-0.8) Various natural and man-made so		
TOC (o) ppm TT NA 0.7 2.4 (2.0-2.7) ND (ND-0.8) Various natural and man-made so	urces	

SERVING MORENO VALLEY, MENIFEE, PERRIS, SUN CITY, GOOD HOPE, MEAD VALLEY, LAKEVIEW, NUEVO, ROMOLAND, NORTH CANYON LAKE, QUAIL VALLEY

IMPORTANT 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 USEPA's Safe Drinking Water Hotline (1-800-426-4791).

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 health care providers. USEPA/Center 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).

Nitrate in drinking water at levels above 45 parts per million, or 45 milligrams per liter (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 45 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. Untreated well water from Wells 44 and 49 located in Moreno Valley exceeds the nitrate MCL of 45 ppm. Under strict state guidelines, EMWD blends low nitrate water from the Mills system with this supply to meet the MCL (see table on opposite page).

Perchlorate is an oxygen-rich salt known in high concentrations to affect the thyroid gland. The California Office of Environmental Health Hazard Assessment (OEHHA) has revised a draft action level of 6 parts per billion, or 6 micrograms

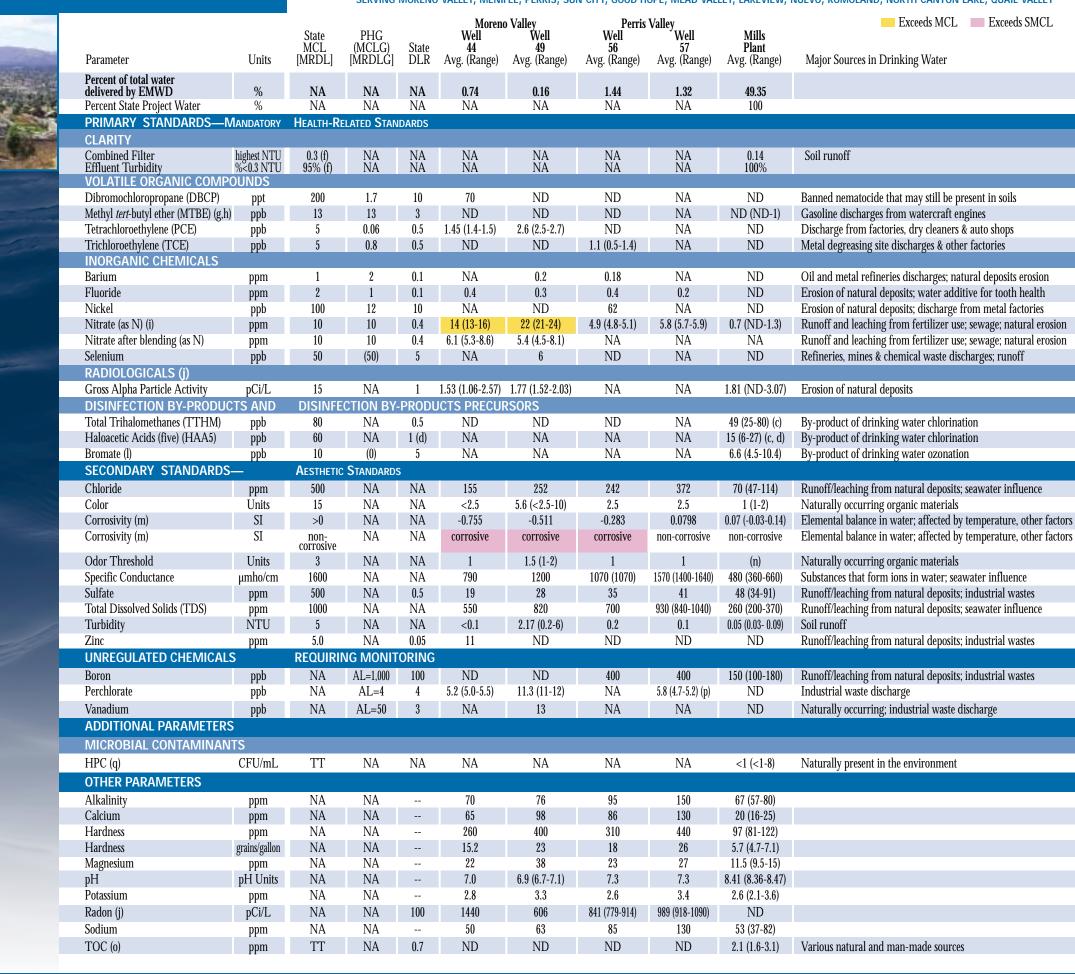
per liter (6µg/L).

EMWD has monitored for perchlorate since 1999-2000. EMWD has three water wells (Wells 57, 44 and 49) that contain a range of perchlorate levels from 4.7 to 12 ppb. All three of these wells are blended with State Project water from the Mills Filtration Plant until the perchlorate level is below the detection limit of 4 ppb. All blending is done at each of the well sites and before the first customer service. At no time has EMWD served unblended well water containing perchlorate to customers.

Radon is a radioactive gas that you can't see, taste or smell. It is found throughout the United States. 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 tapwater from showering, washing dishes, and other household activities.

Radon entering the home through tapwater is in most cases 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, you may test the air in your home. Testing is inexpensive and easy. 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 the problem that aren't too costly. For additional information, call your State radon program or call EPA's Radon Hotline (800-SOS-RADON).



SERVING PERRIS, ROMOLAND, LAKEVIEW, NUEVO

What Else Should I Know About Contaminants & Regulations?

As water travels over the surface of the land or soaks down 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 from human activity.

Contaminants that may be present in source water include:

- 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 by-products 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.
- Microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.

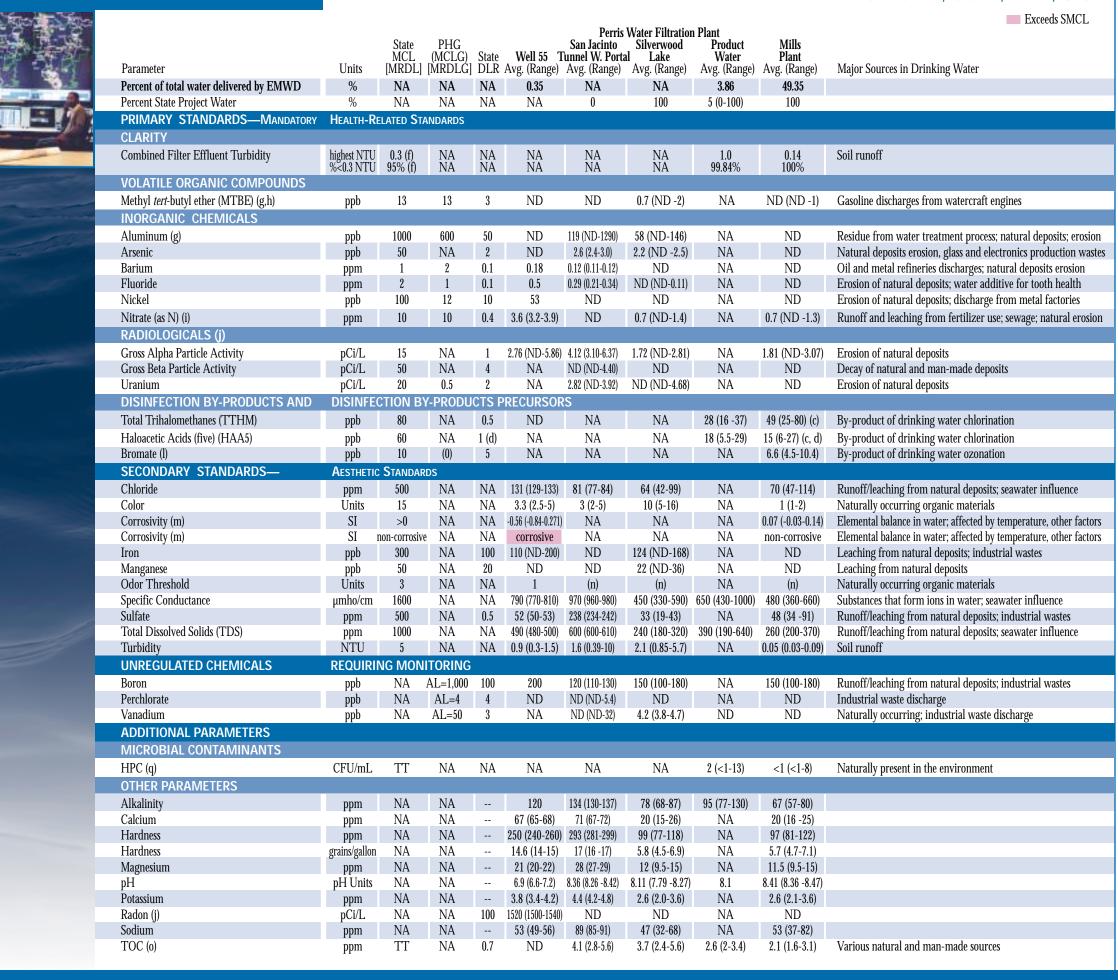
In order to ensure that tapwater is safe to drink, the United States Environmental Protection Agency (USEPA) and the California Department of Health Services (CDHS) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems.

VULNERABILITY ASSESSMENTS

In December 2002, EMWD completed a source water assessment of its potable production well supplies. The assessments evaluated 18 groundwater wells within the District's service area. Groundwater supplies are considered vulnerable to various urban and agricultural land uses.

Urban land uses include automobile gas stations and repair shops, transportation corridors, furniture repair and manufacturing, sewer collection systems, and sand and gravel mining operations. Agricultural land uses include irrigated crops and application of pesticides and herbicides. A copy of the assessments may be obtained by contacting EMWD by phone at (951) 928-3777 extension 6337.

Also in December 2002, Metropolitan Water District of Southern California completed a source water assessment of its Colorado River and State Water Project supplies. Colorado River supplies are considered to be most vulnerable to recreation, urban/storm water runoff, increasing urbanization in the watershed and wastewater. State Water Project supplies are considered to be most vulnerable to urban/storm water runoff, wildlife, agriculture, recreation and wastewater. A copy of the assessment may be obtained by contacting Metropolitan by phone at (213) 217-6850.



Your Water Quality Consumer Confidence Report for 2003

SERVING SUN CITY, MENIFFE, CANYON LAKE AND OUALL VALLEY

MICROBIAL WATER QUALITY AND DISINFECTION

Coliform bacteria are not generally considered harmful. They are used as indicators of potential problems because they are easily monitored and analyzed. It is not at all unusual for a water system to have an occasional positive sample for total coliform bacteria. And it is difficult—if not impossible—to assure that a water system will never get a positive sample.

The Maximum Contaminant Level (MCL) for total coliform

The Maximum Contaminant Level (MCL) for total coliform bacteria is based on a monthly percent of no more than 5.0% of positive samples. The Maximum Contaminant Level Goal (MCLG) is 0%.

In 2003, the District's monthly percent of positive total coliform test results ranged from 0.0% to 1.1% (see EMWD Distribution System Table). No samples tested positive for E. coli in 2003.

Disinfection is typically accomplished using chlorine at wells prior to delivery to customers. Chloramine, a chlorine compound, is used for surface water that is treated at the Mills and Skinner plants. Ozone, an alternative form of disinfection, is used in the treatment process at the Mills plant.

High turbidity, or the measure of the cloudiness of water, can hinder the effectiveness of disinfectants. All surface water samples had turbidity levels within the required Treatment Technique (TT) level of 0.5 Nephelometric Turbidity Units (NTU).

All groundwater sample levels were below the TT level of 5 NTU.

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. Current test methods do not determine if the organisms are dead or if they are capable of causing disease

In 2003, a single Cryptosporidium oocyst was detected in one monthly sample of Mills plant influent that was equivalent to 10 oocysts/100 L.

Ingestion of Cryptosporidium may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immunocompromised people are at greater risk of developing life-threatening illness. We encourage immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water.

DFFINITIONS

Maximum Contaminant Level or 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 or 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 Residual Disinfectant Level or MRDL: The level of a disinfectant added for water treatment that may not be exceeded at the customer's tap.

Maximum Residual Disinfectant Level Goal or MRDLG: The level of a disinfectant added for water treatment below which there is no known or expected risk to health. MRDLs are set by the U. S. Environmental Protection Agency.

Public Health Goal or 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.

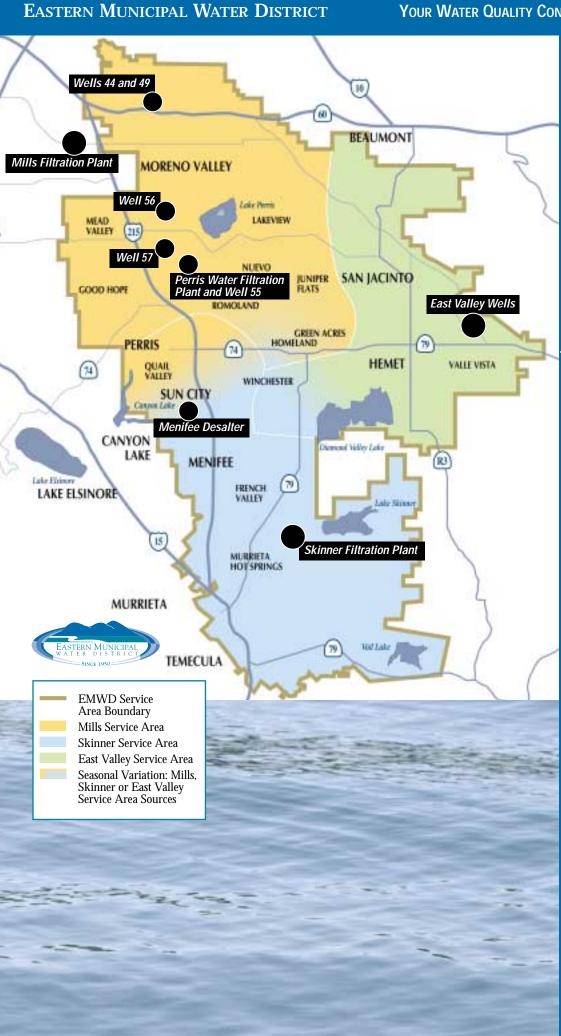
Primary Drinking Water Standard or PDWS: MCLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Regulatory Action Level or AL: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

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



					ING SUN CITY, MENIFEE, CANYON LAKE AND QUAIL VALLEY			
	•	State	PHG		Desalter Wells	Desalter Product	Mills	Exceeds SMCL
_		MCL	(MCLG)	State	Wells 75 & 76	Water	Plant	
Parameter	Units	[MRDL]	[MRDLG]	DLR	Average (Range)	Average (Range)	Average (Range)	Major Sources in Drinking Water
Percent of total water delivered by EMWD	%	NA	NA	NA	NA	1.03	49.35	
Percent State Project Water	%	NA	NA	NA	NA	U	100	
PRIMARY STANDARDS—Mandatory	HEALTH-RELATED STANDARDS							
CLARITY								
Combined Filter Effluent Turbidity	highest NTU %<0.3 NTU	0.3 (f) 95% (f)	NA NA	NA NA	NA NA	NA NA	0.14 100%	Soil runoff
VOLATILE ORGANIC COMPOUNDS	/0<0.3 IVI U	93/0 (1)	IVA	IVA	INA	IVA	100 /0	
Methyl <i>tert</i> -butyl ether (MTBE) (g, h)	nnh	13	13	3	ND	ND	ND (ND-1)	Gasoline discharges from watercraft engines
INORGANIC CHEMICALS	ppb	10	10	J	ND	ND	ND (ND-1)	Gasonne discharges from watercraft engines
	nnh	1000	600	50	ND (ND 76)	ND	ND	Decidus from water treatment process natural denocite erosion
Aluminum (g) Barium	ppb	1000	2	50 0.1	ND (ND-76) 0.13 (0.11-0.14)	ND ND	ND ND	Residue from water treatment process; natural deposits; erosion Oil and metal refineries discharges; natural deposits erosion
Nickel	ppm ppb	100	12	10	50 (16-88)	22 (21-22)	ND ND	Erosion of natural deposits; discharge from metal factories
Nitrate (as N) (i)	ppm	100	10	0.4	4.8 (4.4-5.5)	1.0 (1.0-1.1)	0.7 (ND-1.3)	Runoff and leaching from fertilizer use; sewage; natural erosion
Selenium	ppb	50	(50)	5	8.3 (ND-20)	ND	ND	Refineries, mines, and chemical waste discharges; runoff
Thallium	ppb	2	0.1	1	ND (ND-1.3)	ND	ND	Leaching from ore-processing electronics factory discharges
RADIOLOGICALS (j)	11							0 1 0 3
Gross Alpha Particle Activity	pCi/L	15	NA	1	13.6 (10.4-15.9)	NA	1.81 (ND-3.07)	Erosion of natural deposits
Combined Radium (k)	pCi/L	5	NA	0.5	0.297 (0.109-0.522)	NA	ND	Erosion of natural deposits
Uranium	pCi/L	20	0.5	2	12.6 (10.9-14.4)	NA	ND	Erosion of natural deposits
DISINFECTION BY-PRODUCTS AND			RODUCTS F	PRECURSO				
Total Trihalomethanes (TTHM)	ppb	80	NA	0.5	ND	34 (1.3-74)	49 (25-80) (c)	By-product of drinking water chlorination
Haloacetic Acids (five) (HAA5)	ppb	60	NA	1 (d)	NA	22 (11-38)	15 (6-27) (c, d)	By-product of drinking water chlorination
Bromate (l)	ppb	10	(0)	5	NA	NA	6.6 (4.5-10.4)	By-product of drinking water ozonation
SECONDARY STANDARDS—		STANDARDS						
Chloride	ppm	500	NA	NA	767 (479-908)	210 (209-210)	70 (47-114)	Runoff/leaching from natural deposits; seawater influence
Color	Units	15	NA	NA	5.2 (<2.5-12)	5	1 (1-2)	Naturally occurring organic materials
Corrosivity (m)	SI	>0	NA	NA	0.05 (-0.06-0.237)	-0.06 (-1.43-1.02)	0.07 (-0.03-0.14)	Elemental balance in water; affected by temperature, other factors
Corrosivity (m)	SI	non-corrosive	NA	NA	non-corrosive	corrosive	non-corrosive	Elemental balance in water; affected by temperature, other factors
Iron	ppb	300	NA	100	140 (ND-410)	ND	ND	Leaching from natural deposits; industrial wastes
Manganese	ppb	50	NA	20	ND (ND-34)	ND	ND	Leaching from natural deposits
Odor Threshold	Units	3	NA	NA	1	1	(n)	Naturally occurring organic materials
Specific Conductance	μmho/cm	1600	NA	NA	3490 (3080-3720)	550 (100-990)	480 (360-660)	Substances that form ions in water; seawater influence
Sulfate	ppm	500	NA	0.5	489 (340-744)	105	48 (34-91)	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (TDS) Turbidity	ppm NTU	1000	NA NA	NA NA	2360 (2170-2520)	460 (59-850)	260 (200-370) 0.05 (0.03-0.09)	Runoff/leaching from natural deposits; seawater influence Soil runoff
y .		5 ODING	NA	NA	1.0 (<0.1-3)	0.8 (0.6-0.9)	0.03 (0.03-0.09)	SOII FUIIOII
UNREGULATED CHEMICALS REQUIRI			AT 1,000	100	100	ND	150 (100 100)	
Boron	ppb	NA	AL=1,000	100	100	ND	150 (100-180)	Runoff/leaching from natural deposits; industrial wastes
ADDITIONAL PARAMETERS								
MICROBIAL CONTAMINANTS	ATT. 1		3.7.1	3.7.1	27.4	27.4		
HPC (q)	CFU/mL	TT	NA	NA	NA	NA	<1 (<1-8)	Naturally present in the environment
OTHER PARAMETERS								
Alkalinity	ppm	NA	NA		260 (250-270)	85 (57-160)	67 (57-80)	
Calcium	ppm	NA	NA		395 (290-450)	75 (22-160)	20 (16-25)	
Hardness	ppm	NA	NA		1450 (1100-1600)	365 (360-370)	97 (81-122)	
Hardness	grains/gallon	NA NA	NA		85 (64-94)	21 (21-22)	5.7 (4.7-7.1)	
Magnesium pH	ppm pH Units	NA NA	NA NA		112 (89-130) 6.7 (6.5-6.8)	28 (28-29) 7.6 (6.2-8.3)	11.5 (9.5-15) 8.41 (8.36-8.47)	
Potassium	_	NA NA	NA NA		6.5 (6.2-6.6)	2.2 (2.1-2.2)	2.6 (2.1-3.6)	
Radon (j)	ppm pCi/L	NA NA	NA NA	100	235	NA	2.0 (2.1-3.0) ND	
Sodium	ppm	NA	NA		210 (180-290)	46 (45-46)	53 (37-82)	
TOC (o)	ppm	TT	NA	0.7	ND (ND-0.9)	1.6 (<1-2.3)	2.1 (1.6-3.1)	Various natural and man-made sources
N-Nitrosodimethylamine (NDMA)	ppb	NA	NA	0.002	ND	0.006 (ND-0.011)	NA	
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PUBLIC MEETINGS

Regular public meetings of the EMWD Board of Directors are generally held on the 1st and 3rd Wednesdays of each month. Work sessions begin at 9:00 a.m. and the board meetings start at 1:00 p.m.

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If you wish to attend a meeting, please call the board secretary during normal work hours at (951) 928-3777, ext. 4205 to be certain the meeting is being conducted on the normal date.

For more information, contact: (951) 928-3777, ext. 6337 www.emwd.org

The area code within EMWD's service area will change from 909 to 951 effective July 17, 2004.

MISSION STATEMENT

The mission of Eastern Municipal Water District is to provide safe and reliable water and wastewater management services to our community in an economical, efficient, and responsible manner, now and in the future.

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