Daimntawv tshaj tawm no muaj lus tseemceeb txog koj cov dej haus. Tshab txhais nws, los yog tham nrog tej tug neeg uas totaub txog nws.

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

Water Division. (US EPA) and from your City of Merced U.S. Environmental Protection Agency various water quality issues from the the messages within this report regarding following pages. It is important to read toring Program are summarized on the for Merced's 2022 Water Quality Moniand water delivery system. Test results Merced's water supply, water quality, provides important information about trol Board—Division of Drinking Water, California State Water Resources Con-

# Consumer Confidence Report City Of Merced

port, prepared in cooperation with the

This Annual Consumer Confidence Re-



### **LEAD IN HOME PLUMBING**

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 plumbing. We are 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 and want your water tested, call us for information at (209) 385-6800. For information on lead in drinking water, testing methods, and steps you can take to minimize exposure, call the Safe Drinking Water Hotline at (800) 426-4791 or visit http://www.epa.gov/



## WHERE DOES THE CITY OF MERCED **GET IT'S WATER?**

The City of Merced supplies water through the operation of 21 active wells throughout the City. These wells draw water from the Merced Groundwater Subbasin. Each site can produce over 1.500 gallons per minute. The distribution system is well over 500 miles long, includes over 25,000 service connections, nearly 3,000 fire hydrants and approximately 25,000 water meters, 7,000 main line valves and over 2,300 backflow devices. In 2022, these wells pumped 6.6 billion gallons of water to residents, businesses, and commercial properties.

### was printed on recycled paper. In an effort to help the environment, this report

Department at 1776 Grogan Avenue, Merced, CA. ment is available at the City of Merced, Public Works and irrigation wells. A copy of the complete assessservice, low density septic system, agricultural wells, cultural drainage, farm chemical distributor/application pipeline, fertilizer, pesticide/herbicide application, agritanks, sewer collection system, chemical/petroleum historic), dry cleaners, leaking underground storage from the following activities: gas stations (current and March 2003. The source is considered vulnerable City of Merced's water system was completed in An assessment of the drinking water source for the

### SOURCE WATER ASSESSMENT

Let's do our part to Save water for the future! off in winter and during rain \*Sign up for EyeonWater. too long and on the right days and time \*Turn sprinklers mediately \*Check sprinkler timers, make sure not on Merced Watering Schedule \*Repair sprinkler leaks imshowerheads and toilets \*Always follow the City of wolf wol esU\* gnivshar or shaving \*Use low flow wash down driveways or sidewalks, use a broom \*turn \*Use a hose nozzle whenever washing cars \*never

WATER CONSERVATION TIPS



at: www.cityofmerced.org. You can find the schedule schedule will save water. so, following the watering ter whenever possible. Alconservation by saving wadens, lets continue water essential for tree's and garmonths. While irrigation is gnitseimi-non eninub sidt customers use less than to 14,960 gallons. Most ber month; which converts Cubic Feet (HCF) of water rate includes 20 Hundred have a 1" meter. The base Most residential properties

### WHAT DOES MY WATER METER LOOK LIKE?

### IS MERCED'S WATER ANY GOOD?

YES IT IS! The City of Merced is proud to announce once again that your tap water met or surpassed all US EPA and State drinking water health standards. The City of Merced Water Department works around the clock to ensure the drinking water we deliver to our customers is of the highest quality. In an effort to meet Federal and State standards for drinking water, our highly trained, certified treatment operators monitor our water treatment operations continuously. In 2022, we tested for more than 250 contaminants in the water and collected over 4,000 samples taken throughout our water system (results reported inside this report). If you have any questions about your drinking water or the contents of this report, please call the Water Division at 385-6800.

### WHAT IS WATER CHLORINATION?

Chlorination is the process of adding chlorine to drinking water to disinfect and kill germs. Different processes can be used to achieve safe levels of chlorine in drinking water. Chlorine is available as compressed elemental gas, sodium hypochlorite liquid solution or solid calcium hypochlorite. While the chemicals could be harmful in high doses, when they're added to water, they mix in and spread out, resulting in low levels that kill germs but are still safe to drink. Chlorine levels up to 4 milligrams per liter (mg/L or 4 parts per million (ppm) are considered safe in drinking water. More information can be found on the Center for Disease Control and Prevention website @ www.cdcfoundation.org.

## **EYEONWATER.COM IS FREE!**

Understanding your water use is an important part of conserving water. EyeOnWater is a free tool for City of Merced customers to view their water usage on their desktop or mobile device. EyeOnWater also detects leaks (and can send you alerts of the leak), can help customers understand their water consumption, and discover watering trends. Customers can sign up by visiting www.eyeonwater.com/signup.

For a copy of this report visit our website: cityofmerced.org/PublicWorks/Water/ConsumerConfidenceReport or call (209) 385-6800 and we will mail one to you.



specific reporting requirements of the the water for those contaminants, and remove contaminants as well as testing inants, required ways to treat water to contaminant levels for particular contam-Regulations set enforceable maximum The National Primary Drinking Water remain compliant with these standards. water agencies then work together to in drinking water. US EPA, States, and -made contaminants that may be found against both naturally-occurring and man standards for drinking water to protect (US EPA) to set national health-based States Environmental Protection Agency supply. SDWA authorizes the United ing the nation's public drinking water 1974 to protect public health by regulatwas originally passed by Congress in The Safe Drinking Water Act (SDWA)

#### THE SAFE DRINKING WATER ACT

certlic/drinkingwater/Fluoridation.html. www.waterboards.ca.gov/drinking\_water/ oral health, can be found at: one noisebinoul fluode noisemnoful .mqq6a.0 to age average of month an average of fluoride levels in the treated water ranged million). Our 2022 monitoring showed the be at an optimum dose of 0.70ppm (parts per quire the fluoride levels in the treated water brevent tooth decay. State regulations reride to the naturally occurring level to help

Our water system is treated by adding fluo-

FLUORIDE IN YOUR WATER

### SUBSTANCES THAT COULD BE IN **YOUR WATER**

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. In some cases, radioactive material can pick up substances resulting from the presence of animals or from human activity. In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (U.S. EPA) and the State Water Resource Control Board (State Board/SWRCB) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necssarily 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 at (800) 426-4791.

## **IMPORTANT HEALTH INFORMATION**

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, may be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The USEPA/Centers for Disease Control and Prevention (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 at (800) 426-4791.

SAMPLING RESULTS The tables below list all drinking water contaminants that we tested for and detected according to State drinking water requirements. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless noted, the data presented in this report are from testing accomplished from January 1, 2022 to December 31, 2022. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not frequently change. In these cases, the most recent sample data are included, along with the year in which the samples were collected. For questions regarding frequency of contaminant sampling, please call (209) 385-6800 or visit www.epa.gov.

SUBSTANCE	YEAR	MCL	PHG (MCLG)	AVERAGE	RANGE		
(UNIT OF MEASURE)	SAMPLED	[MRDL]	[MRDLG]	DETECTED	LOW-HIGH	VIOLATION	TYPICAL SOURCE
Arsenic¹ (ug/L)	2022	10	0.004	3.5	ND - 7.7	No	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Barium (mg/L)	2022	1	2	0.21	0.07 - 0.47	No	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits
Chlorine (mg/L)	2022	[4.0 (as Cl2)]	[4.0 (as Cl2)]	0.71	0.28 - 1.04	No	Drinking water disinfectant added for treatment
Chromium [Total] (ug/L)	2022	50	(100)	0.99	ND - 16	No	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Fluoride (mg/L)	2022	2	1	0.11	ND - 0.18	No	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Gross Alpha Particle Activity (pCi/L)	2017/2022	15	(0)	2.6	ND - 9.2	No	Erosion of natural deposits.
Gross Beta Particle Activity <sup>2</sup> (pCi/L)	2017/2022	50	(0)	6.1	ND - 11	No	Decay of natural & man-made deposits.
Radium 226 (Ra 226) (pCi/L)	2022	5	0.05	0.01	ND11	No	Erosion of natural deposits.
Nitrate³ (as N) (mg/L)	2022	10	10	2.4	0.93 - 5.0	No	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Tetrachloroethylene [PCE] 4 (ug/L)	2022	5	0.06	0.26	ND - 2.2	No	Discharge from factories, dry cleaners, and auto shops (metal degreaser)
Total Trihalomethanes [TTHM] (ug/L)	2022	80	N/A	0.25	ND - 1.0	No	Byproduct of drinking water disinfection
Uranium (pCi/L)	2022	20	0.43	2.07	ND - 8.7	No	Erosion of natural deposits.
				WATER S	TANDARD	S: There are	no PHGs, MCLGs, or mandatory standard health effects language for these contami-
nants because secondary MCLs are SUBSTANCE				AVERAGE	RANGE		
(UNIT OF MEASURE)	YEAR SAMPLED	MCL [MRDL]	PHG (MCLG) [MRDLG]	AVERAGE DETECTED	LOW-HIGH	VIOI ATION	TYPICAL SOURCE
Chloride (mg/L)	2022	500	NS	8.5	3.1 - 15	No	Runoff/leaching from natural deposits; seawater influence
	2022	300	140	0.0	0.1 - 10	110	
	2022	15	NC	17	ND 10	No	
	2022	15	NS	4.7	ND - 10	No	Naturally occurring organic materials
Copper (mg/L)	2022	1.0	NS NS	4.7 0.30	ND - 10 ND 0.0065	No No	Naturally occurring organic materials Internal corrosion of household plumbing systems; erosion of natural deposits.
Copper (mg/L)					-		Naturally occurring organic materials Internal corrosion of household plumbing systems; erosion of natural deposits.
Copper (mg/L) Corrosivity <sup>5</sup> (Units)	2022	1.0 Non-	NS	0.30	ND 0.0065	No	Naturally occurring organic materials Internal corrosion of household plumbing systems; erosion of natural deposits. Natural or industrially influenced balance of hydrogen, carbon and oxygen in the water; affected
Copper (mg/L) Corrosivity <sup>5</sup> (Units) Odor—Threshold	2022	1.0 Non- corrosive	NS NS	0.30	ND 0.0065 11 - 13	No No	Naturally occurring organic materials Internal corrosion of household plumbing systems; erosion of natural deposits. Natural or industrially influenced balance of hydrogen, carbon and oxygen in the water; affecte by temperature and other factors
Color (Units) Copper (mg/L) Corrosivity <sup>5</sup> (Units) Odor—Threshold pH, Laboratory Sulfate (mg/L)	2022 2022 2022	1.0 Non- corrosive 3 Units	NS NS NS	0.30 12 0.05	ND 0.0065 11 - 13 ND - 1.0	No No No	Naturally occurring organic materials Internal corrosion of household plumbing systems; erosion of natural deposits. Natural or industrially influenced balance of hydrogen, carbon and oxygen in the water; affecte by temperature and other factors Naturally occurring organic materials
Copper (mg/L) Corrosivity <sup>5</sup> (Units) Odor—Threshold pH, Laboratory Sulfate (mg/L)	2022 2022 2022 2022	1.0 Non- corrosive 3 Units 6.5 - 8.5	NS NS NS	0.30 12 0.05 8.0	ND 0.0065 11 - 13 ND - 1.0 7.6 - 8.2	No No No	Naturally occurring organic materials Internal corrosion of household plumbing systems; erosion of natural deposits. Natural or industrially influenced balance of hydrogen, carbon and oxygen in the water; affecte by temperature and other factors Naturally occurring organic materials Low pH: bitter metallic taste, corrosion. High pH: slippery feel, soda taste; deposits
Copper (mg/L) Corrosivity <sup>5</sup> (Units) Odor—Threshold pH, Laboratory Sulfate (mg/L) Specific Conductance (µS/cm)	2022 2022 2022 2022 2022	1.0 Non- corrosive 3 Units 6.5 - 8.5 500	NS NS NS NS NS	0.30 12 0.05 8.0 8.9	ND - 0.0065 11 - 13 ND - 1.0 7.6 - 8.2 2.1 - 12	No No No No	Naturally occurring organic materials Internal corrosion of household plumbing systems; erosion of natural deposits. Natural or industrially influenced balance of hydrogen, carbon and oxygen in the water; affecte by temperature and other factors Naturally occurring organic materials Low pH: bitter metallic taste, corrosion. High pH: slippery feel, soda taste; deposits Runoff/leaching from natural deposits; industrial wastes
Copper (mg/L) Corrosivity <sup>5</sup> (Units) Odor—Threshold pH, Laboratory	2022 2022 2022 2022 2022 2022	1.0 Non- corrosive 3 Units 6.5 - 8.5 500 1600	NS NS NS NS NS NS	0.30 12 0.05 8.0 8.9 350	ND - 0.0065 11 - 13 ND - 1.0 7.6 - 8.2 2.1 - 12 170 - 640	No No No No No	Naturally occurring organic materials Internal corrosion of household plumbing systems; erosion of natural deposits. Natural or industrially influenced balance of hydrogen, carbon and oxygen in the water; affecte by temperature and other factors Naturally occurring organic materials Low pH: bitter metallic taste, corrosion. High pH: slippery feel, soda taste; deposits Runoff/leaching from natural deposits; industrial wastes Substances that form ions when in water; seawater influence
Copper (mg/L)  Corrosivity <sup>5</sup> (Units)  Odor—Threshold pH, Laboratory  Sulfate (mg/L)  Specific Conductance (µS/cm)  Total Dissolved Solids (mg/L)  Turbidity (NTU)	2022 2022 2022 2022 2022 2022 2022 202	1.0  Non- corrosive 3 Units 6.5 - 8.5  500 1600 1000 5 Units	NS NS NS NS NS NS NS NS NS	0.30 12 0.05 8.0 8.9 350 248 0.28	ND 0.0065 11 - 13 ND - 1.0 7.6 - 8.2 2.1 - 12 170 - 640 150 - 400 ND - 1.6	No	Naturally occurring organic materials Internal corrosion of household plumbing systems; erosion of natural deposits. Natural or industrially influenced balance of hydrogen, carbon and oxygen in the water; affecte by temperature and other factors Naturally occurring organic materials Low pH: bitter metallic taste, corrosion. High pH: slippery feel, soda taste; deposits Runoff/leaching from natural deposits; industrial wastes Substances that form ions when in water; seawater influence Runoff/leaching from natural deposits Soil runoff
Copper (mg/L)  Corrosivity <sup>5</sup> (Units)  Odor—Threshold pH, Laboratory  Sulfate (mg/L)  Specific Conductance (µS/cm)  Total Dissolved Solids (mg/L)  Turbidity (NTU)	2022 2022 2022 2022 2022 2022 2022 202	1.0  Non- corrosive 3 Units 6.5 - 8.5  500 1600 1000 5 Units	NS NS NS NS NS NS NS NS NS	0.30  12  0.05  8.0  8.9  350  248  0.28	ND 0.0065 11 - 13 ND - 1.0 7.6 - 8.2 2.1 - 12 170 - 640 150 - 400 ND - 1.6	No N	Naturally occurring organic materials Internal corrosion of household plumbing systems; erosion of natural deposits. Natural or industrially influenced balance of hydrogen, carbon and oxygen in the water; affecte by temperature and other factors Naturally occurring organic materials Low pH: bitter metallic taste, corrosion. High pH: slippery feel, soda taste; deposits Runoff/leaching from natural deposits; industrial wastes Substances that form ions when in water; seawater influence Runoff/leaching from natural deposits
Copper (mg/L) Corrosivity <sup>5</sup> (Units) Odor—Threshold pH, Laboratory Sulfate (mg/L) Specific Conductance (µS/cm) Total Dissolved Solids (mg/L) Turbidity (NTU) Tap water samples were collection	2022 2022 2022 2022 2022 2022 2022 202	1.0  Non- corrosive 3 Units 6.5 - 8.5  500 1600 1000 5 Units	NS NS NS NS NS NS NS NS NS Per analyse	0.30  12  0.05  8.0  8.9  350  248  0.28  s from hou	ND - 0.0065 11 - 13 ND - 1.0 7.6 - 8.2 2.1 - 12 170 - 640 150 - 400 ND - 1.6 Useholds m SITES ABOVE	No N	Naturally occurring organic materials Internal corrosion of household plumbing systems; erosion of natural deposits. Natural or industrially influenced balance of hydrogen, carbon and oxygen in the water; affecte by temperature and other factors Naturally occurring organic materials Low pH: bitter metallic taste, corrosion. High pH: slippery feel, soda taste; deposits Runoff/leaching from natural deposits; industrial wastes Substances that form ions when in water; seawater influence Runoff/leaching from natural deposits Soil runoff
Copper (mg/L)  Corrosivity <sup>5</sup> (Units)  Odor—Threshold pH, Laboratory  Sulfate (mg/L)  Specific Conductance (µS/cm)  Total Dissolved Solids (mg/L)  Turbidity (NTU)	2022 2022 2022 2022 2022 2022 2022 202	1.0  Non- corrosive 3 Units 6.5 - 8.5  500 1600 1000 5 Units	NS NS NS NS NS NS NS NS NS	0.30  12  0.05  8.0  8.9  350  248  0.28  s from hot AVERAGE DETECTED	ND - 0.0065 11 - 13 ND - 1.0 7.6 - 8.2 2.1 - 12 170 - 640 150 - 400 ND - 1.6 USE HOLDS IN SITES ABOVE AL/	No Conceeting crit	Naturally occurring organic materials Internal corrosion of household plumbing systems; erosion of natural deposits. Natural or industrially influenced balance of hydrogen, carbon and oxygen in the water; affecte by temperature and other factors Naturally occurring organic materials Low pH: bitter metallic taste, corrosion. High pH: slippery feel, soda taste; deposits Runoff/leaching from natural deposits; industrial wastes Substances that form ions when in water; seawater influence Runoff/leaching from natural deposits Soil runoff
Copper (mg/L) Corrosivity <sup>5</sup> (Units) Odor—Threshold pH, Laboratory Sulfate (mg/L) Specific Conductance (µS/cm) Total Dissolved Solids (mg/L) Turbidity (NTU) Tap water samples were collected	2022 2022 2022 2022 2022 2022 2022 202	1.0  Non- corrosive 3 Units 6.5 - 8.5 500 1600 1000 5 Units	NS NS NS NS NS NS NS NS Per analyse	0.30  12  0.05  8.0  8.9  350  248  0.28  s from hot AVERAGE DETECTED	ND - 0.0065 11 - 13 ND - 1.0 7.6 - 8.2 2.1 - 12 170 - 640 150 - 400 ND - 1.6 USE HOLDS IN SITES ABOVE AL/	No Conceeting crit	Naturally occurring organic materials Internal corrosion of household plumbing systems; erosion of natural deposits. Natural or industrially influenced balance of hydrogen, carbon and oxygen in the water; affects by temperature and other factors Naturally occurring organic materials Low pH: bitter metallic taste, corrosion. High pH: slippery feel, soda taste; deposits Runoff/leaching from natural deposits; industrial wastes Substances that form ions when in water; seawater influence Runoff/leaching from natural deposits Soil runoff teria within city limits. The next Lead & Copper event is scheduled for 2024.

UNREGULATED AND OTHER SUBSTANCES <sup>6 -</sup> No MCL, PHG or MCLG					
SUBSTANCE	YEAR	AVERAGE	RANGE		
(UNIT OF MEASURE)	SAMPLED	DETECTED	LOW-HIGH		
Alkalinity—Total as CaCO₃ (ppm)	2022	140	66 - 290		
Bromide (ppb)	2018	70	24 - 170		
Calcium (ppm)	2022	28.4	12 - 60		
Hardness (Total) as CACO₃ (ppm)	2022	114	62 - 260		
Hexavalent Chromium (ppb)	2022	3.3	0.49 - 4.7		
Magnesium (ppm)	2022	10.6	4.6 - 22		
*Perfluorooctanoic Acid (PFOA) (ng/L)	2019	0.11	ND - 1.6		
*Perfluorooctanesulfonic Acid (PFOS) (ng/L)	2019	0.14	ND - 1.3		
Potassium (ppm)	2022	6.6	3 - 12		
Sodium (ppm)	2022	24	13- 36		
Toluidine (ppb)	2018	0.0019	ND034		

- Arsenic results at Well Site 2 for all three wells are within the blending MCL of 10 ppb. All other well sites were below the MCL. 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 cost of removing arsenic from drinking water. The U.S. EPA 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.
- 50 pCi/L is used as a screening level for Gross Beta Particle Activity.
- 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 specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.
- While your drinking water meets Federal and State standards, it may contain low levels of contaminants below detection limits and below the Regulatory Action Level. The PCE and TCE standard balances the current understanding of possible health effects against the cost of removing contaminants from the drinking water. The U.S. EPA continues to research the health effects of low levels of PCE and TCE. The were no TCE results over the Detection Limit (DLR) for 2022.
- Corrosivity is not a National Environmental Laboratory Accreditation Program accredited analyte. All sampling results are based and calculated on an average of 21 production wells
- Unregulated contaminant monitoring and reporting (UCMR) helps the U.S. EPA and the State Water Board to determine where certain contaminants occur and whether the contaminants should be regulated. These samples are conducted approximately every 3-5 years.
- The July 2018 notification levels for PFOA of 14 ng/L and for PFOS of 13 ng/L were superceded on August 22, 2019, with new notification levels 5.1 ng/L for PFOA and 6.5 ng/L for

## Units of Measure and the equivalence:

To help you better understand the units of measure listed in these tables (ex: ppm, ppb, mg/L) please see the Equivalence table below. If you have any questions, call the Water Department at (209) 385-6800. This table is provided by the State Water Board- Division of Drinking Water.

ers; erosion of natural deposits

Unit	Equivalence	
mg/L - milligrams per liter	= ppm - parts per million	= 1 second in 11.5 days
ug/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

## 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 can 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; by-products of industrial processes and petroleum production, which can also come from gas stations, urban stormwater runoff, agricultural applications, and septic systems.

Radioactive Contaminants that can be naturally occurring or can be the result of oil and gas production and mining activities.

### **DEFINITIONS**

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

MCL (Maximum Contaminant Level) 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 (SMCLs) are set to protect the odor, taste and appearance of drinking water.

MCLG (Maximum Contaminant Level Goal) 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. EPA.

MRDL (Maximum Residual Disinfectant Level) 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.

MRDLG (Maximum Residual Disinfectant Level Goal) 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.

ND (Not detected) Indicates that the substance was not found by laboratory analysis .

NL (Notification Level) Health-based advisory levels established for chemicals in drinking water that lack maximum contaminant levels. NS No Standard.

NTU (Nephelometric Turbidity Units) Measurement of the clarity, or turbidity, of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

pCi/L (picocuries per liter) A measure of radioactivity.

PHG (Public Health Goal) 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.

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

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

mg/L; ug/L; ng/L; ppm; ppb; ppt: listed above in the equivalence table.