

## 2019 Consumer Confidence Report - Improvement District 1 (ID 1)

Water Quality Data for January through December 2018

Rincon Water is proud to present the 2019 Consumer Confidence Report on Water Quality (CCR). Rincon del Diablo Municipal Water District (Rincon Water) has been serving the community for over 64 years and is pleased to announce that your tap water continues to meet and exceed all federal and state drinking water standards as set by the U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board Division of Drinking Water (SWRCB DDW).

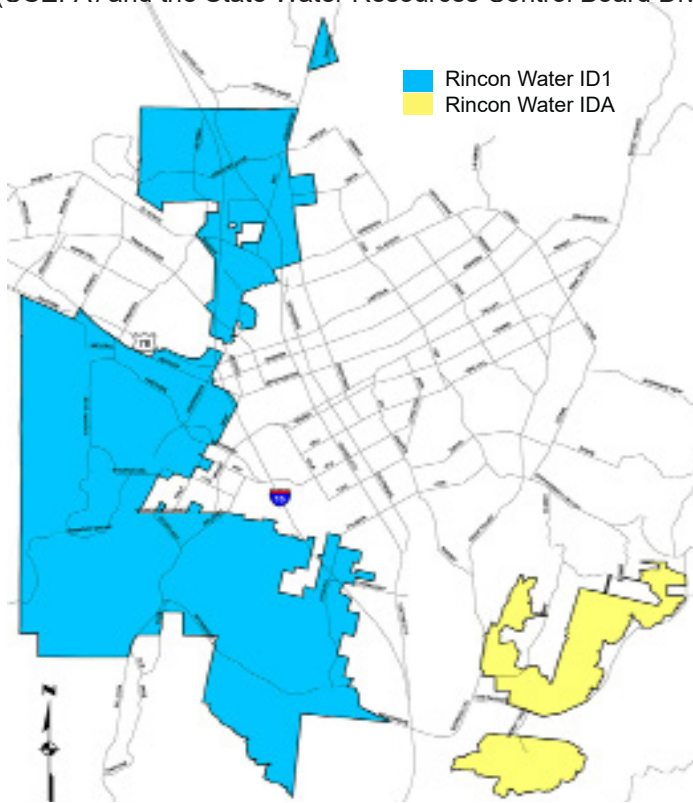


Figure 1 - Map of Rincon Water's Improvement District (ID) 1 & A.

Rincon Water has confidence in the quality of our water and we want to share that with you. This report contains important information about your water, where it comes from and its specific qualities. Rincon Water regularly tests your water to ensure compliance with federal and state guidelines. As a customer and consumer, you have the right - and should know, the consistency of your water. Please take a moment to read through this report.

As you know, California continues to be challenged by drought. As such, Rincon Water plans both locally and regionally to ensure adequate water supplies for our customers while focusing on a reduced dependency on imported water. Through innovation, conservation, and education, Rincon Water is a leader of providing a safe, reliable water supply for generations to come.

We welcome your comments, questions, and participation. For more information about this report, or your water quality in general, please contact Clint Baze, Director of Engineering and Operations at (760) 745-5522. Public comments are also welcome at our monthly Board Meeting held every fourth Tuesday of the month at 6:00 pm at our District offices located at 1920 North Iris Lane, Escondido. Please visit [www.rinconwater.org](http://www.rinconwater.org) for more information.

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# Where your Water Comes From

## Improvement District 1 (ID 1)

(Accounts beginning with: 01 - 48, 94, 96, and 97)

In previous years, ID 1's water delivery system consisted only of 100% imported water purchased from the San Diego County Water Authority, which in turn, purchased this water from the Metropolitan Water District of Southern California (MWD). MWD water is imported from two sources: Colorado River water from Lake Havasu and Sacramento-San Joaquin Delta water from Northern California. The water is blended and treated at the Robert A. Skinner Treatment Plant, located in Riverside County, before being delivered into Rincon Water's distribution system.

Since 2016, ID 1 customers received this imported water, augmented with water originating from the Twin Oaks Valley Water Treatment Plant (TOVWTP). TOVWTP water is a blend of treated SDCWA and desalinated sea water from the Claude "Bud" Lewis Carlsbad Desalination Plant (Lewis Desal Plant). Taken from the Carlsbad Agua Hedionda Lagoon, the desalinated water is a superior quality water - free of salt as well as biological and organic compounds.

### California's Water System



## Water Treatment

Surface water from sources such as rivers or open reservoirs often contains dirt and other organic and inorganic matter, as well as trace amounts of certain contaminants. Upon arriving at the treatment plant, water is analyzed and treated, resulting in drinking water that is completely safe for human consumption. The most common steps in water treatment include coagulation and flocculation, sedimentation, filtration, and disinfection.

Disinfection, the final step in water treatment, deactivates and destroys pathogenic microorganisms and/or microbiological contaminants which may be present in the source water. Disinfection is accomplished primarily by the addition of chemical disinfectants to the water. All disinfectants have benefits and drawbacks. Chlorine is the most widely used disinfectant since it is readily available and relatively inexpensive. Moreover, it contributes to the reliability of drinking water produced from surface water. The EPA establishes standards for water treatment and disinfection by-products, or secondary products resulting from this disinfection action, in order to safeguard public health. Our wholesalers have identified the following disinfection byproducts, residuals, and precursors resulting from the water treatment process:

Parameter <sup>(a)</sup>	Scale	State			Rincon Water System						Source See Page 6 for Key			
		MCL MRDL	PHG MRDLG	DLR	Range	Average								
<b>Total Trihalomethanes</b> <sup>(d)</sup>	ug/L	80	NA	-	11 - 36	24	Testing performed within the Rincon Water System				1, 2			
Highest LRAA														
<b>Haloacetic Acids</b> <sup>(e)</sup>	ug/L	60	NA	-	2.0 - 9.3	5.7								
Highest LRAA						8.0								
<b>Total Chlorine Residual</b>	mg/L	4	4	-	1.21 - 2.10	1.56						3		
<b>Testing performed at treatment plant effluent:</b>					<b>Lake Skinner</b>		<b>TOVWTP</b>		<b>Lewis Desal Plant</b>		<b>Source</b>			
					Range	Average	Range	Average	Range	Average				
<b>Bromate</b>	ug/L	10	0.1	1	ND - 5.9	3.7	1.0 - 15.0	5.0	NA	NA	1			
<b>Chlorate</b>	ug/L	NL=800	NA	20	43	43	160 - 290	219	NA	NA	1			
<b>Nitrosodimethylamine</b>	ng/L	NL=10	3	2	4.1	4.1	2.0	SS	NA	NA	1			

Note: MRDL and MRDLG parameters appear in corresponding red print in all tables.

# Water and Health

Elementary chemistry tells us that water in itself is a chemical (H<sub>2</sub>O). But, water also needs chemistry for human use and consumption. Between natural and manmade processes potable water contains impurities. Because drinking water is essential for good health, we want our customers to be aware of how we are providing safe, reliable, and high-quality water. Federal and State regulations require that we publish our annual testing results to ensure you that we are meeting these high standards.

In reality however, all drinking water may be reasonably expected to contain small amounts of some contaminants. The presence of these contaminants does not necessarily pose a health risk. More information about contaminants and potential health effects can be obtained by calling the **EPA's Safe Drinking Water Hotline at 1-800-426-4791**.



## Drinking Water and Weakened Immune Systems

Some people may be more vulnerable to contaminants in drinking water than the general population. Immune-compromised persons such as persons 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 from their health care providers about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium or other microbiological contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

## Contaminants in the News

As testing becomes more precise and health implications refined, a particular contaminant may receive media attention. Those contaminants are typically identified as having potential significant impact on your health and/or the environment. Over the years, perchlorate, radionuclides, MTBE, and arsenic have been on that list. The table below shows results for these contaminants that were detected. All levels of these constituents were within EPA and State limitations:

Parameter <sup>(a)</sup>	Scale	State			Lake Skinner		TOVWTP		Lewis Desal Plant		Source See Page 6 for Key
		MCL MRDL	PHG MCLG	DLR	Range	Average	Range	Average	Range	Average	
Arsenic	ug/L	10	.004	2	ND	ND	3	SS	ND	ND	14
Chromium VI	ug/L	NA	0.02	NA	ND	ND	0.04 - 0.17	0.09	NA	NA	13
Gross Alpha Activity	pCi/L	15	0	3	ND - 4.00	ND	4.00 - 7.00	5.00	ND	ND	5
Gross Beta Activity	pCi/L	50	0	4	ND - 5.0	ND	4.0 - 6.0	5.0	ND	0.45	14
Combined Radium <sup>(h)</sup>	pCi/L	5	0	NA	ND	ND	ND	ND	0.18 - 0.71	0.31	5
Selenium	ug/L	50	30	5	ND	ND	ND	ND	ND - 8.19	ND	6
Tritium	pCi/L	20000	400	1000	ND	ND	ND - 289	72	ND	ND	5
Uranium	pCi/L	20	0.43	1	ND - 3.00	ND	2.20	SS	ND	ND	5

## Lead and Copper

One particular contaminant featured in the news during 2017 was lead. Along with copper, both metals can enter drinking water when private residential and commercial plumbing systems containing these metals begin to corrode.

As required by the State Water Resources Control Board (SWRCB) Division of Drinking Water, and as a proactive measure aimed at safety, Rincon Water provided free water testing to detect the presence of lead for the schools within its service area. Although California's drinking water is generally at a low risk for lead contamination, lead can sometimes be found in some individual, privately owned plumbing systems, where pipes may have been joined with lead solder - before this practice was banned by the Federal Safe Water Drinking Act in 1986. (The use of copper is still applicable in current building and plumbing codes.)

Working with the school districts, Rincon Water tested the water in 2016 for lead at four Escondido school campuses which included North Broadway, Miller, and Bernardo elementary schools, as well as the Calvin Christian Schools, over the course of a month. The water was tested at five points within each site, including drinking fountains and food service fixtures. The tests, paid for by Rincon Water, covered the costs of collecting samples, conducting analysis, and reporting the results to the State of California as well as to the schools. No lead was detected at the school sites. In addition, the table below shows test results for water samples collected from 39 residential plumbing systems located on Rincon Water's distribution system.

Parameter <sup>(a)</sup>	Scale	State			Rincon Water System (2016)		Source See Page 6 for Key
		MCL MRDL	PHG MRDLG	DLR	90th Percentile of 39 Samples	# of Sites > AL	
Lead <sup>(f)</sup>	ug/L	AL=15	0.20	5	7.4	1	Testing performed within the Rincon Water System
Copper <sup>(f)(g)</sup>	mg/L	AL=1.3	0.30	0.05	.45	0	

# Other Water Contaminants

A contaminant is any impurity found in source water. These impurities may be physical, chemical, biological or radiological substances or matter. Drinking water may reasonably be expected to contain small amounts of some contaminants. Some contaminants pose no health risks while others may be harmful if consumed above certain levels. The sources of contaminants range from being naturally present in the environment to those introduced by land users and/or industrial waste discharges into our water supply system. There are five primary categories of contaminants listed in the chart below.

- **Clarity**, or the lack thereof, does not necessarily represent contaminants with direct health risks. There is however, a relationship between clarity and the ability of chlorine to work effectively during the disinfection process. Water with poor clarity can hide or mask those contaminants which can be harmful to your health.
- **Microbiological** contaminants, when ingested at certain levels, may cause gastrointestinal health-related problems.
- **Primary Inorganic** contaminants, when present at excessive levels, may have adverse effect on human health.
- **Secondary Inorganic** contaminants can make the taste or appearance of water less appealing.
- **Unregulated** contaminants have no established parameters at this time.

Water treatment processes remove contaminants from your water and can be quite costly to operate when specific contaminants are present. It is less expensive to protect water at the source, which is why Rincon Water supports watershed protection programs. The following contaminants were identified in your drinking water and were within EPA and State limitations:

Parameter <sup>(a)</sup>	Scale	State			Lake Skinner		TOVWTP		Lewis Desal Plant		Source See Page 6 for Key
		MCL MRDL	PHG MRDLG	DLR	Range	Average	Range	Average	Range	Average	
<b>Clarity</b> <sup>(b)</sup>											
Turbidity	NTU	TT = 1	NA	NA	0.08	-	0.01 - 0.02	-	0 - 1.00	-	4, 15
	%	95%(<0.3)			100%	-	100%	-	99.7%	-	
<b>Microbiological</b> <sup>(c,d)</sup>											
Total Coliform Bacteria <sup>(1)</sup>	Effluent %	5	0	NA	ND	0.00	ND - ND	ND	ND	ND	4
Total Coliform Bacteria <sup>(1)</sup>	Testing performed in Rincon Water system										
Giardia <sup>(2)</sup>	Cysts/200L	TT	0	1	ND - 1	ND	ND	ND	ND	ND	20
<b>Primary Inorganic</b>											
Fluoride	mg/L	2	1	0.1	0.60 - 0.90	0.70	0.60 - 0.90	0.70	0.60 - 0.83	0.72	5, 17
Nitrate (as N)	mg/L	10	10	0.4	ND	ND	ND - 0.6	0.4	ND	ND	5, 7, 8
Aluminum	ug/L	1000	600	50	ND - 100	51	ND	ND	ND	ND	5, 21
<b>Secondary Inorganic</b>											
Chloride	mg/L	500	NA	NA	90 - 93	92	55	SS	55 - 118	74	5, 9
Color	units	15	NA	NA	ND - 1	ND	ND	ND	ND	ND	5, 10
Manganese	ug/L	50	NL=500	20	22	22	ND	ND	ND	ND	5
Odor Threshold	TON	3	NA	1	3.0	3.0	ND	ND	ND - 1	ND	4
Specific Conductance	umho/cm	1600	NA	NA	841 - 851	846	810	SS	304 - 600	414	5, 6
Sulfate	mg/L	500	NA	0.5	168 - 175	172	160	SS	9 - 17	12	4, 5
Total Dissolved Solids	mg/L	1000	NA	NA	510 - 526	518	510	SS	119 - 333	217	5
<b>Unregulated</b>											
Boron	ug/L	NL = 1000	NA	100	120	120	130	SS	372 - 923	606	5, 6
Calcium	mg/L	NA	NA	NA	54 - 58	56	55	SS	17 - 35	23	5
Corrosivity	SI	non-corrosive	NA	NA	0.54 - 0.59	0.56	0.64	SS	0.05 - 0.53	0.29	5, 6
Hardness	mg/L	NA	NA	NA	218 - 238	228	220	SS	42 - 71	54	5
HPC	CFU/ml		NA	NA	ND	ND	ND	ND	ND - 1.7	0.4	4
Magnesium	mg/L		NA	NA	21.0 - 22.0	22.0	20.0	SS	0.5 - 1.1	0.7	5
pH	units		NA	NA	8.1 - 8.2	8.1	7.1 - 8.5	8.2	8.0 - 8.7	8.5	9, 11
Potassium	mg/L		NA	NA	4.0 - 4.5	4.2	4.0	SS	1.0 - 3.7	2.4	5
Sodium	mg/L		NA	NA	85 - 92	88	82	SS	16 - 78	54	5
Total Alkalinity	mg/L		NA	NA	104 - 109	106	110	SS	42 - 80	63	5
Total Organic Carbon	mg/L		NA	.3	2.0 - 2.7	2.4	2.1 - 2.6	2.3	NA	NA	12

(1) This Consumer Confidence Report (CCR) reflects changes in drinking water regulatory requirements during 2017. All water systems are required to comply with the state Total Coliform Rule. Beginning April 1, 2016, all water systems are also required to comply with the federal Revised Total Coliform Rule. The new federal 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 US EPA anticipates greater public health protection as the new 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 defect exists. If found, these must be corrected by the water system.

(2) A single Giardia cyst was detected in one sample from the filter effluent at the Skinner water treatment plant prior to the treated water reservoir and addition of final disinfectant. The monitoring method detects all cysts, regardless of whether they are alive or dead. The plant met all operational and regulatory requirements throughout the year, including at the time of this single sampling event, and there was not any regulatory violation.

## Unregulated Contaminant Monitoring Rule 3

The Unregulated Contaminant Monitoring Rule 3, an amendment to the 1996 Safe Drinking Water Act, requires that once every five years, the Environmental Protection Agency issues a new list of no more than 30 unregulated contaminants to be monitored by public water systems. This monitoring is to serve as a basis for future potential regulatory actions to protect public health.

In compliance with Monitoring Rule 3, sampling is conducted on a quarterly basis within a single year, during the five year cycle established by the EPA. The EPA requires that Monitoring Rule 3 contaminants, at or above the Detection Limit Reporting level (DLR), be listed in a table for reporting purposes. The DLRs in this table are not indicative of any known health concerns. The results for the current five year cycle for ID1 are displayed in the table below.

	Scale	DLR	Quarter 1	Quarter 2	Quarter 3	Quarter 4
<b>ID 1 - Sample Point: 3710018001 00001</b>			3/20/13	6/18-25/13	9/10/13	12/10/13
Chlorate	ug/L	20.0	23.0	49.0	60.0	35.0
Hexavalent Chromium	ug/L	0.030	0.048	0.060	0.058	0.048
Molybdenum	ug/L	1.0	2.80	3.70	3.80	3.80
Strantium	ug/L	.30	560	870	890	850
Vanadium	ug/L	0.20	-	-	-	-
<b>ID 1 - Sample Point: 3710018991 99001</b>						
Chlorate	ug/L	20.0	ND	63.0	46.0	37.0
Hexavalent Chromium	ug/L	0.030	0.049	0.081	0.065	0.058
Molybdenum	ug/L	1.0	2.60	4.00	3.70	3.70
Strantium	ug/L	.30	500	930	880	820
Vanadium	ug/L	0.20	-	-	-	-

## Protecting Water Quality at the Source

Source water protection is an important issue for all of California. Large water utilities are required by the State Water Resources Control Board - Division of Drinking Water, to conduct an initial source water assessment, which is then updated through watershed sanitary surveys every five years. Watershed sanitary surveys examine possible sources of drinking water contamination and recommend actions to better protect these source waters. The most recent surveys for Metropolitan's source waters are the Colorado River Watershed Sanitary Survey – 2015 Update and the State Water Project Watershed Sanitary Survey – 2011 Update.

Source waters used by Metropolitan — the Colorado River and State Water Project — each have different water quality challenges. Both are exposed to stormwater runoff, recreational activities, wastewater discharges, wildlife, fires, and other watershed-related factors that could affect water quality. Treatment to remove specific contaminants can be more expensive than measures to protect water at the source, which is why Metropolitan and other water agencies invest resources to support improved watershed protection programs. Water from the Colorado River is considered to be most vulnerable to contamination from recreation, urban/stormwater runoff, increased urbanization in the watershed, and wastewater. Water supplies from Northern California are most vulnerable to contamination from urban/stormwater runoff, wildlife, agriculture, recreation, and wastewater.



A copy of the **California State Water Watershed Sanitary Survey** can be accessed by calling the **State Water Resources Control Board - Division of Drinking Water at 1-619-525-4159**. A copy of the Colorado River Sanitary Survey can be accessed by calling the **Metropolitan Water District of Southern California's Water Hotline at 1-800-354-4420**.

*In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board (State Board) 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 provide the same protection for public health.*

## Abbreviations Key

AL	<b>Regulatory Action Level:</b> The concentration of a contaminant, which if exceeded, triggers treatment or other requirements, which a water system must follow.
CFU	<b>Colony-Forming Units</b>
DLR	<b>Detection Limit for Reporting:</b> A detected contaminant is any contaminant detected at or above its detection level for purposes of reporting.
DSYS	<b>Distribution System</b>
LRAA	<b>Locational Running Annual Average</b>
MCL	<b>Maximum Contaminant Level:</b> The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to PHGs, MRDLGs, and maximum contaminant level goals as economically or technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.
MCLG	<b>Maximum Contaminant Level Goal:</b> The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the United States Environmental Protection Agency (USEPA).
mg/L	<b>Milligrams Per Liter:</b> Parts per million (ppm). This is equivalent to one packet of artificial sweetener added to 250 gallons of iced tea.
NA	<b>Not Applicable</b>
ND	<b>None Detected:</b> Parameters for detection limits available upon request.
ng/L	<b>Nanograms Per Liter:</b> Parts per trillion (ppt). This is equivalent to one drop of water in 500,000 barrels of water.
NL	<b>Notification Level</b>
NS	<b>No Standard</b>
MRDL	<b>Maximum Residual Disinfectant Level:</b> The level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap.
MRDLG	<b>Maximum Residual Disinfectant Level Goal:</b> The level of a disinfectant added for water treatment below which there is not known or expected risk to health. MRDLs are set by the USEPA.
NTU	<b>Nephelometric Turbidity Units:</b> A measure of the cloudiness in water. It is a good indicator of effectiveness of the WTP and DSYS.
pCi/L	<b>PicoCuries Per Liter:</b> A measure of radioactivity.
PHG	<b>Public Health Goal:</b> 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.
SI	<b>Saturation Index</b> (langelier)
SS	<b>Single Sample</b>
TON	<b>Threshold Odor Number</b>
TT	<b>Treatment Technique:</b> A required process intended to reduce the level of a contaminant in drinking water.
ug/L	<b>Micrograms Per Liter:</b> Parts per billion (ppb). This is equivalent to one packet of artificial sweetener added to an

## Source Key

1. By-product of drinking water chlorination 2. Sampled quarterly 3. Addition of chlorine & ammonia as combined disinfectant, chloramine 4. Naturally present in the environment 5. Erosion/leaching of natural deposits 6. Industrial waste discharge 7. Runoff/leaching from fertilizer use 8. Septic tank and sewage 9. Seawater influence 10. Corrosion of household plumbing systems 11. Substances that form ions when in water 12. Various natural and man-made sources 13. Gasoline discharge from boats 14. Decay of natural and man-made deposits 15. Soil runoff 16. By-product of drinking water ozonation 17. Water additive that promotes strong teeth 18. Discharge from pharmaceutical and chemical factories 19. Used as a gasoline additive 20. Human fecal waste 21. Residual of water treatment process.

## Foot Notes

(a) Data shown are annual averages and ranges. (b) Tests are performed on drinking water turbidity (clarity) at the Water Treatment Plant and in the distribution system. The turbidity tests are done continuously at the WTP. 95% of the measurements must be less than 0.3 NTU at the Lake Skinner WTP and less than 0.1 NTU at the TOVWTP and Lewis Desal Plant. In addition, samples are taken each week at various points in the distribution system. This table reflects the clarity or turbidity produced at the WTP and in the distribution system. (c) Total coliform MCLs - No more than 5% of the monthly samples may be total coliform positive. (d) Calculated from the average of quarterly samples. (e) Calculated from the average of quarterly samples. (f) This table shows the levels of copper and lead found in the homes of selected customers. 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. Rincon Water is responsible for providing high quality drinking water, but cannot control the variety of materials used in private 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>. (g) The Federal and State standards for lead and copper are treatment techniques requiring agencies to optimize corrosion control treatment. Average of the highest value is the 90th percentile value. (h) Standards are for Radium-226 and Radium-228 combined.

### NOTICE

Sources of drinking water (both tap 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. The following contaminants may be present in source water:

**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**, which may come from a variety of sources like 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, and septic systems.

**Radioactive contaminants**, which can be naturally occurring or the result of oil and gas production and mining activities.

### About Cryptosporidium

Cryptosporidium ("crypto") is a microscopic organism found in rivers and streams and comes from animal waste in the watershed. When ingested by humans, it may result in a variety of gastrointestinal symptoms including diarrhea, nausea, and fever. The Metropolitan Water District of Southern California and the City of Escondido have tested for crypto in their treated water supplies for years. In 2017, this organism was not detected in either source water.