

High-quality drinking water that's healthy and hydrating matters to you and your family. Delivering it to you is our priority.

Today and every day, your water passes through world-class treatment facilities and testing laboratories. Then we deliver it to you through one of the **most advanced and reliable municipal**

Water delivered by the Las Vegas Valley Water District meets or surpasses all State of Nevada and Federal Safe Drinking Water Act standards. water systems in the nation. And how about tomorrow? We're taking care of water's future too. At the Southern Nevada Water Authority's Applied Research & Development Center, high-level research advances innovation to improve both water quality and water-treatment methods, safeguarding you and our community.

Your drinking water is drawn from deep within Lake Mead, where water quality is optimal. This is made possible with our community's support of key, multiyear infrastructure investments: Intake No. 3 works in tandem with our Low Lake Level Pumping Station and water treatment facilities to ensure our region can continue to access high-quality water even during unprecedented drought conditions. Are we water-secure? Without a doubt.

Our infrastructure along with sustained conservation enable us to serve high-quality water safely and reliably to our community and our customers under any scenario.

Our experienced employees take pride in delivering the water your family relies on. We thank you for helping us to invest wisely in our most important resource—and for using water responsibly. Our community's per-person water use declined by **nearly 15 percent** in 2023, compared to 2022, helping Southern Nevada continue to shine as a world leader in water conservation. Please visit **lvvwd.com** to learn more about your water quality and for tips on how you can be water smart every day of the year.

John J. Entrans

John J. Entsminger General Manager

Las Vegas Valley Water District/Southern Nevada Water Authority

LVVWD Board of Directors

Marilyn Kirkpatrick, President • James Gibson, Vice President • Justin Jones • William McCurdy II • Ross Miller • Michael Naft • Tick Segerblom

GET INVOLVED

Open, public LVVWD Board meetings are held at 9 a.m. on the first Tuesday of each month at the Clark County Government Center, 500 S. Grand Central Pkwy. Agendas are posted at least three days before each meeting on **lvvwd.com**. Other questions? Email us via the **lvvwd.com** "Contact Us" link or send mail to:

Las Vegas Valley Water District Public Services Department 1001 S. Valley View Blvd., MS 780 Las Vegas, NV 89153

Nota en español: Este reporte contiene información muy importante acerca de la calidad del agua. Para recibir una copia en español, llama al **702-258-3838** o visita **lvvwd.com**.

This report is based on data collected during the 2023 calendar year, unless noted otherwise, and is provided in accordance with the Safe Drinking Water Act.



HOW WE MONITOR, TEST AND TREAT YOUR WATER

In 2023, we conducted more than **320,000** analyses on more than **55,000** water samples from Lake Mead, our storage reservoirs and 367 community-wide sampling stations—including stations in customers' meter boxes. We go above and beyond the stringent requirements of the Safe Drinking Water Act: Our goal is ensuring water quality right up to your meter, and we monitor in "real time" 365 days a year, around the clock.

Water we draw from the Las Vegas Valley groundwater aquifer is naturally filtered, so it is simply treated with chlorine as it enters the water distribution system. We treat water drawn from Lake Mead at the Southern Nevada Water Authority's two advanced water treatment facilities with a leading-edge combination of ozonation, filtration and chlorination.

State-of-the-art ozonation is our primary water treatment. Ozone provides a very powerful disinfectant with a superior ability to kill bacteria, *Cryptosporidium* and microscopic organisms that may be present in source (**untreated**) water.

Multistage filtration systems remove particles from the water, and we add **chlorine** as water leaves the treatment facilities. This protects water on the way to your tap. We use chlorination throughout Southern Nevada's distribution systems: It's **highly effective at destroying viruses and microorganisms** during treatment and maintaining disinfection throughout the system. Additional corrosion-control efforts also help maintain water quality through Water District pipelines—all of them lead-free.

HOW TO UNDERSTAND TEST RESULTS

We monitored for 91 U.S. EPA-regulated contaminants in 2023; 76 of these have "primary" standards and by law, are listed in this report if detected. We also monitored for more than 75 unregulated contaminants and for *Cryptosporidium*, which is required by the EPA for water systems that treat surface water. *Cryptosporidium*, a naturally occurring organism that can cause gastrointestinal distress, was not detected in any 2023 source (untreated) water samples. You'll find a complete Water Quality Summary on Ivvwd.com, where you may view additional monitoring results not required in this report.

GET THE FACTS

Las Vegas Valley Water District

Website, Report Water Waste Ivvwd.com Water Quality 702-258-3215 Public Information 702-258-3930

Conservation Incentives and Coupons (SNWA)
Website snwa.com

Environmental Protection Agency

Website **epa.gov**Safe Drinking Water Hotline **800-426-4791**

Nevada Division of Environmental Protection Website ndep.nv.gov/water



WATER QUALITY TEST RESULTS				LAS VEGAS VALLEY WATER DISTRICT DISTRIBUTION SYSTEM ®			LAS VEGAS VALLEY WATER DISTRICT GROUNDWATER (WELLS) [©]		ALFRED MERRITT SMITH WATER TREATMENT FACILITY ®			RIVER MOUNTAINS WATER TREATMENT FACILITY ⁽¹⁾			These results represent levels of regulated contaminants in the treated water supply, based on 2023 data, except where noted. Visit Ivvwd.com for a complete Water Quality Summary.
REGULATED CONTAMINANTS	UNIT	MCL (EPA Limit)	MCLG (EPA Goal)	MINIMUM	MAXIMUM	AVERAGE	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	AVERAGE	MINIMUM	MAXIMUM	AVERAGE	POSSIBLE SOURCES
Alpha Particles	pCi/L	15	0	Entry Point Monitoring Only			N/D	7.4	2.8	2.8	2.8	2.7	2.7	2.7	Erosion of natural deposits of certain minerals that are radioactive and may emit a form of radiation known as alpha radiation
Arsenic	ppb	10	0	Entry Point Monitoring Only			0.77	4.0 (2)	1.5	1.7	1.6	1.9	2.2	2.0	Erosion of natural deposits
Barium	ppm	2	2	Entry Point Monitoring Only		0.03	0.09	0.1	0.2	0.2	0.1	0.2	0.2	Erosion of natural deposits; discharge from metal refineries; discharge of drilling wastes	
Bromate	ppb	10	0	Entry Point Monitoring Only		N/A (groundwater is r	not treated with ozone)	2.5	7.2	5 (3)	2.5	6.7	5 ⁽³⁾	By-product of drinking-water disinfection by ozonation	
Copper (4)	ppm	1.3 ⁽⁵⁾ (Action Level)	1.3	N/D (6)	2.3 (6)(7)	0.85 ⁽⁶⁾ (90th% value)	Distribution Syste	em Monitoring Only	Distribution System Monitoring Only			Distribution System Monitoring Only			Corrosion of household plumbing systems; erosion of natural deposits
Di(2-ethylhexyl) adipate	ppb	400	400	Entry	Point Monitorin	g Only	N/D	2.4	N/D	N/D	N/D	N/D	N/D	N/D	Discharge from chemical factories
Fluoride	ppm	4.0	4.0	0.29	0.73	0.65	0.12	0.50 (2)	0.35 (8)	0.75	0.71	0.68	0.80	0.72	Erosion of natural deposits; water additive (9)
Free Chlorine Residual	ppm	4.0 ⁽¹⁰⁾ (MRDL)	4.0 ⁽¹⁰⁾ (MRDLG)	0.12	2.3	1.0 (3)	Distribution Syste	em Monitoring Only	Distribution System Monitoring Only			Distribution System Monitoring Only			Water additive used to control microbes
Haloacetic Acids	ppb	60	N/A ⁽¹¹⁾	N/D	42	35 (12)	Distribution Syste	Distribution System Monitoring Only			Distribution System Monitoring Only			By-product of drinking-water disinfection	
Lead (4)	ppb	15 ⁽⁵⁾ (Action Level)	0	N/D (6)	16 ⁽⁶⁾⁽⁷⁾	2.6 ⁽⁶⁾ (90th% value)	Distribution Syste	Distribution System Monitoring Only			Distribution System Monitoring Only			Corrosion of household plumbing systems; erosion of natural deposits	
Nitrate (as Nitrogen)	ppm	10	10	Entry	Point Monitorin	g Only	0.35	4.8 (13)	0.36	0.62	0.54	0.42	0.66	0.58	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Radium 226 and Radium 228 (combined)	pCi/L	5	0	Entry Point Monitoring Only		N/D	3.7 ⁽²⁾	N/D	N/D	N/D	N/D	N/D	N/D	Erosion of natural deposits	
Selenium	ppb	50	50	Entry	Point Monitorin	g Only	N/D	2.3	1.9	2.5	2.3	2.0	2.8	2.3	Erosion of natural deposits; discharge from mines; component of petroleum
Total Coliforms	percent positive per month	5%	0	0%	0.3%	0%	Distribution System Monitoring Only		Distribution System Monitoring Only			Distribution System Monitoring Only			Naturally present in the environment
Total Trihalomethanes	ppb	80	N/A ⁽¹¹⁾	3	77	66 (12)	Distribution System Monitoring Only		Distribution System Monitoring Only			Distribution System Monitoring Only			By-product of drinking-water disinfection
Turbidity	NTU	95% of samples <0.3 NTU ⁽¹⁴⁾	N/A	Treatment Facility Monitoring Only			Treatment Facility Monitoring Only		100% of samples were below 0.3 NTU. Maximum NTU was 0.08 on Jan. 12, 2023.			100% of samples were below 0.3 NTU. Maximum NTU was 0.07 on Feb. 9, 2023.			Soil runoff
Uranium	ppb	30	0	Entry	Point Monitorin	g Only	1.6	2.9 (2)	3.7	4.4	4.2	3.9	4.5	4.2	Erosion of natural deposits

KEY TERMS

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

AMSWTF: Alfred Merritt Smith Water Treatment Facility

Disinfection by-product: A substance created by the chemicals or processes used to destroy potentially harmful micrographisms

Locational running annual average: The average of sample results taken at a particular monitoring location for the previous four consecutive quarters.

LVVWD: Las Vegas Valley Water District

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

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 allow for a margin of safety.

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 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 contamination.

N/A: Not applicable

N/D: Not detected. Does not equate to zero, but refers to an amount below analytical reporting limits.

Nephelometric Turbidity Unit (NTU): A measurement of water's clarity.

Ozonation: An advanced water treatment process that involves the addition of ozone, a very powerful gaseous disinfectant, to water to destroy bacteria, *Cryptosporidium* and other pathogens. Ozonation processes began at AMSWTF and RMWTF in 2003.

Part per billion (ppb): A unit used to describe the levels of detected contaminants. Equivalent to 1 cent in \$10 million.

Part per million (ppm): A unit used to describe the levels of detected contaminants. Equivalent to 1 cent in \$10,000.

Picocuries per liter (pCi/L): A measure of the radioactivity in water. Low levels of radiation occur naturally in many water systems, including the Colorado River.

Running annual average: The average of sample results for 12 consecutive months or four consecutive quarters, based on the monitoring requirements.

RMWTF: River Mountains Water Treatment Facility

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

Turbidity: A measure of water clarity, which serves as an indicator of the treatment facility's performance.

FOOTNOTES

- (1) Some Safe Drinking Water Act (SDWA) regulations require monitoring from the distribution system, while other SDWA regulations require monitoring at the entry points to the distribution system (LVVWD wells, AMSWTF, RMWTF).
- (2) Annual monitoring not required, data from 2021.
- (3) This value is the highest running annual average reported in 2023. Reports are filed quarterly.
- (4) Samples are collected from LVVWD customers' taps.
- (5) Lead and copper are regulated by a Treatment Technique that requires systems to control the corrosiveness of their water. If more than 10% of tap-water samples exceed the Action Level, water systems must take additional steps. For copper the Action Level is 1.3 ppm, and for lead it is 15 ppb.
- (6) Annual monitoring not required, data from 2022.
- (7) Maximum values greater than the Action Level are allowable as long as the 90th percentile value is less than the Action Level.

- (8) AMSWTF fluoridation system was out of service at time of collection. Follow-up sampling took place when the fluoridation system returned to service and results were within operation range.
- (9) By state law, the Southern Nevada Water Authority is required to fluoridate the municipal water supply. This law is not applicable to groundwater.
- (10) Chlorine is regulated by MRDL, with the goal stated as a MRDLG.
- (11) Although there is no collective MCLG for this contaminant group, there are individual MCLGs for some of the individual contaminants. Trihalomethanes: bromodichloromethane (zero); bromoform (zero); dibromochloromethane (60 ppb); chloroform (70 ppb). Haloacetic acids: dichloroacetic acid (zero); trichloroacetic acid (20 ppb); monochloroacetic acid (70 ppb). Bromoacetic acid and dibromoacetic acid are regulated with this group but have no MCLGs.

- (12) This value is the highest locational running annual average reported in 2023. Reports are filed quarterly.
- (13) While your drinking water meets EPA standards for nitrate, it does contain low levels of nitrate. Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agriculture activity. If you are caring for an infant, you should ask for advice from your health care provider.
- (14) Turbidity is regulated by a Treatment Technique requirement: 95% of all samples taken after filtration each month must be less than 0.3 NTU. Maximum turbidity cannot exceed 1.0 NTU.

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ADDITIONAL TEST RESULTS

Many large water systems, including ours, also monitor for specific constituents that the U.S. EPA is considering for drinking-water regulation. We provide information to the EPA as part of the **Unregulated Contaminant Monitoring Rule (UCMR)**—a hallmark of the 1996 amendments to the Safe Drinking Water Act to further protect water quality. The rule benefits the environment and public health by providing the EPA with scientifically valid data on contaminants of interest, but not yet regulated, in drinking water. A new list of priority contaminants is established for each five-year UCMR cycle.

UCMR 4 monitoring took place in 2018 and 2019; a table of those results is below. We are currently in the UCMR 5 cycle, which specifies monitoring for lithium and for 29 per- and polyfluoroalkyl substances (PFAS)—a group of synthetic chemicals that are used in a wide range of consumer products and industrial applications, and that persist in the environment. Sample collection under UCMR 5 takes place January 2023-December 2025, with LVVWD service-area monitoring slated for 2025. We will provide results within this report, once data is available.

Learn more about the UCMR program: epa.gov/dwucmr Learn more about PFAS and EPA actions: epa.gov/pfas



ADDITIONAL TEST (Data from 2019)	LAS VEGAS VALLEY WATER DISTRICT DISTRIBUTION SYSTEM			WATER PC	VEGAS VAL R DISTRICT DINTS TO TI IBUTION SY	ENTRY HE				
MONITORED CONTAMINANTS ⁽¹⁵⁾	UNIT	MCL (EPA Limit)	MCLG (EPA Goal)	MINIMUM	MAXIMUM	AVERAGE	MINIMUM	MAXIMUM	AVERAGE	POSSIBLE SOURCES
HAA 5 (16)	ppb	60	N/A ⁽¹⁷⁾	N/D	41	26	N/A	N/A	N/A	By-product of drinking-water disinfection
HAA 6 Br	ppb	N/A	N/A	N/D	29	21	N/A	N/A	N/A	By-product of drinking-water disinfection
НАА 9	ppb	N/A	N/A	N/D	96	44	N/A	N/A	N/A	By-product of drinking-water disinfection
Manganese	ppb	N/A	N/A	N/A	N/A	N/A	2.2	11.0	6.6	Erosion of natural deposits

FOOTNOTES

(15) Monitoring for each of the monitored contaminants in the UCMR 4 table was conducted to comply with the Unregulated Contaminant Monitoring Rule 4 (UCMR 4) set by the U.S. EPA Safe Drinking Water Act. Per the rule, monitoring is conducted within the distribution system and at entry points to the distribution system. Unregulated contaminant monitoring helps the U.S. EPA to determine where certain contaminants occur and whether the agency should consider regulating those contaminants in the future. With the exception of HAA 5, these contaminants have no MCLs or MCLGs.

(16) HAA 5 refers to five specific haloacetic acids that may be found in drinking water. Results for this regulated contaminant in the UCMR 4 table are different from the results in the Water Quality Test Results table because UCMR 4 monitoring required separate locations and monitoring periods than those used for HAA 5 compliance monitoring. Monitoring for the HAA 5 compounds, in conjunction with UCMR 4 Assessment Monitoring, is required under the authority provided in Section 1445(a)(1)(A) of the SDWA.

(17) Although there is no collective MCLG for this contaminant group, there are individual MCLGs for some of the individual contaminants. Haloacetic acids: dichloroacetic acid (zero); trichloroacetic acid (20 ppb); monochloroacetic acid (70 ppb). Bromoacetic acid and dibromoacetic acid are regulated with this group but have no MCLGs.

INFORMATION FOR VULNERABLE INDIVIDUALS

Some people may be more vulnerable to contaminants in drinking water than the general population. Those with compromised immune systems such as cancer patients undergoing chemotherapy, people who have had organ transplants, those 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 drinking water. Call the Safe Drinking Water Hotline at 800-426-4791 for Environmental Protection Agency/Centers for Disease Control guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants.

SOURCE WATER ASSESSMENT AVAILABLE

The federal Safe Drinking Water Act requires states to develop and implement source water assessment programs to analyze existing and potential threats to the quality of public drinking water throughout the state. A summary of the Las Vegas Valley Water District's susceptibility to potential sources of contamination was initially provided by the state of Nevada. The summary source water assessment was originally included in an LVVWD Water Quality Report and now may be accessed at Ivvwd.com. Call 702-258-3930 if you have questions. Learn more about the Nevada Source Water Assessment Program at ndep.nv.gov/water/source-water-protection.

MORE ABOUT YOUR SOURCE WATER

All water originates from a source. Sources for both tap water and bottled water include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water—such as the Colorado River, our primary water source—travels over land surfaces or through the ground, it dissolves minerals and, in some cases, other contaminants. It also may pick up substances resulting from the presence of animals or from human activity.

Tap water as well as bottled water may reasonably be expected to contain at least small amounts of some contaminants—any substances that are not H_2O . It's important to understand that the presence of contaminants does not necessarily indicate that water poses a health risk—particularly in light of claims made by some home water-treatment companies and reports about water quality or the environment.

Before the Las Vegas Valley Water District delivers your tap water, it undergoes a multistage treatment process. We test your water rigorously to ensure it meets strict Safe Drinking Water Act standards. Our goal is to effectively treat and manage contaminants that may be present in source (untreated) water, including:

Microbial contaminants such as viruses and bacteria that may come from wastewater discharges or animal wastes from urban or agricultural runoff;

Inorganic contaminants such as salts and metals that can occur naturally or result from industrial or domestic wastewater discharges, farming or mining;

Pesticides and herbicides that may come from urban stormwater runoff from agricultural and residential uses;

Organic chemical contaminants including synthetic or volatile organic chemicals that are by-products of industrial processes and can come from gas stations, industrial discharges and stormwater runoff:

Radioactive contaminants that can occur naturally or as a result of industrial activities.

To ensure tap-water safety, EPA regulations limit the amount of certain contaminants in water provided by public water systems. Learn more by calling the EPA Safe Drinking Water Hotline at 800-426-4791 or visit the Nevada Division of Environmental Protection website at ndep.nv.gov/water. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide similar protection for public health.

LEAD AND COPPER EDUCATION NOTICE

The Las Vegas Valley Water District's relatively young and highly reliable municipal water infrastructure does NOT contain lead service lines or lead-based components. The Water District is responsible for providing high-quality drinking water but cannot control materials used in home plumbing components. Some Nevada homes built before 1990 are more likely to have lead pipes, fixtures and solder. Lead and copper in drinking water is mainly due to corrosion of home plumbing systems containing these metals.

Most of our community's water comes from the Colorado River: It contains naturally occurring minerals that make it "hard" and less corrosive to piping materials. Additionally, the Water District maintains robust corrosion-control programs developed in coordination with the Nevada Division of Environmental Protection to further help prevent lead from plumbing materials from entering into drinking water.

The Water District monitors for lead and copper in compliance with the EPA Lead and Copper Rule and tests tap-water samples collected from participating residences. Those testing results have remained well below EPA limits.

The state of Nevada and the EPA require public education for lead and copper. Your water meets state and federal requirements for lead, but if present at elevated levels, lead can cause serious health problems, especially for pregnant women and young children. When your water has been sitting for several hours, 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 tap water, have your water tested by a private laboratory. For more information, call the EPA Safe Drinking Water Hotline, 800-426-4791, or visit epa.qov.

The U.S. EPA is poised to take actions to improve the Lead and Copper Rule that are intended to better protect families and communities in years to come, particularly those that have been disproportionately impacted by lead in drinking water. The federal requirements take effect starting in 2024, and the Water District is proactively developing and implementing measures to comply with this rule, such as preparing a customer-side service line inventory and increasing test sites and testing frequency. Learn more at **epa.gov** and depend on your Water Quality Report to keep you informed.





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2024 WATER QUALITY REPORT



Inside: Your tap water meets or surpasses ALL Safe Drinking Water Act standards.

Let's talk about Rocky Mountain, mineral-rich tap water



Yes, our water is "hard!" Water is considered hard when it contains a high level of dissolved minerals. In the Las Vegas Valley, calcium and magnesium are the two nontoxic minerals that cause our hard water. They're carried into Lake Mead from the mineral-dense Colorado River and pose NO health risk. Naturally occurring minerals and electrolytes keep you hydrated and healthy!

Let's talk TASTE!

Don't love the taste of hard tap water? We respect that. But **don't confuse water hardness with water quality**. Debating **tap vs. bottled**? Ditch pricey, disposable water bottles and fill a reusable bottle with water from your faucet instead. Southern Nevada's tap water is tested **more often** and meets **more stringent** requirements than bottled water.

BOOST tap-water taste

Try these super-simple tips:

ADD CITRUS: Small lemon, lime or orange slices equal BIG zest.

CHILL OUT: Keep a pitcher of tap water in the fridge. You'll boost flavor and zap the chlorine-y taste.

FILTER: Try an activated carbon filter, like those in carafe systems.

MAINTAIN: Keep up with filter replacement and maintenance schedules if you have a built-in filtration system. And know your water hardness (304 parts per million or 18 grains per gallon) when setting your water softener.



Get **free**, objective info about in-home water treatment systems!

snwa.com

CHEERS, Southern Nevada!

