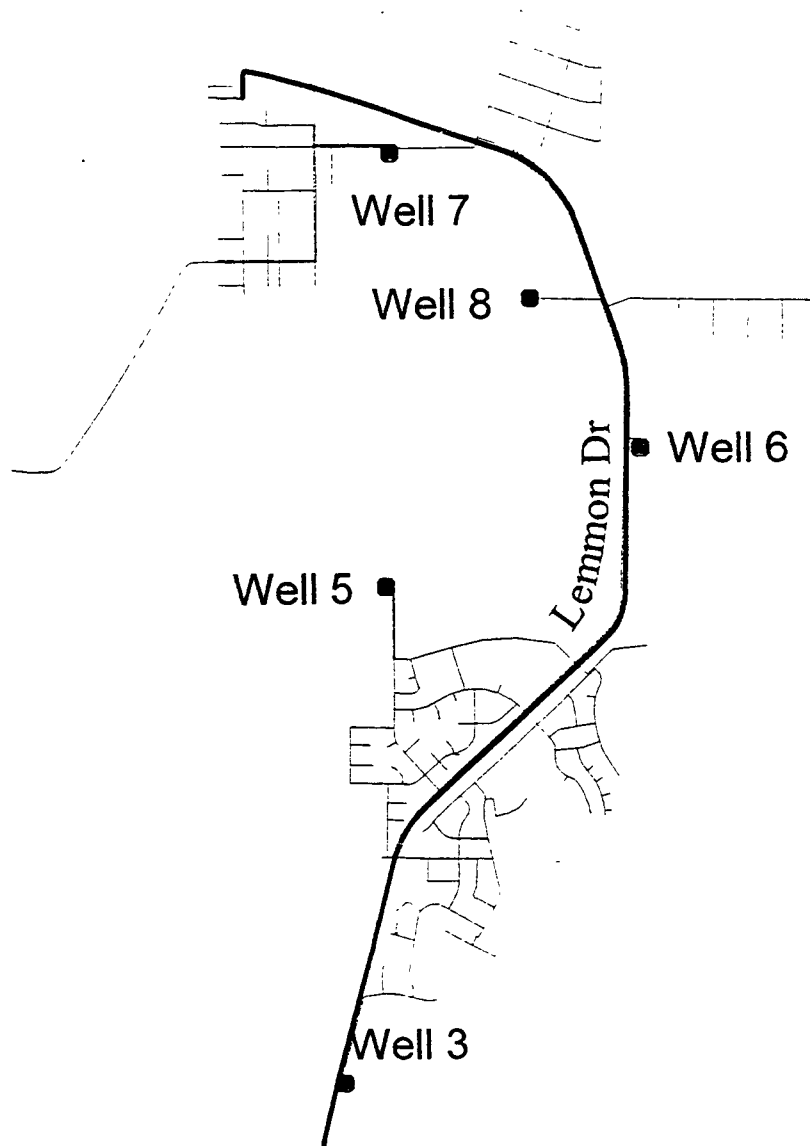


## 1999 Water Quality Report for the Lemmon Valley Water Service Area

### Your drinking water meets all standards established for water quality.

We are proud to say that water supplied to our customers meets all standards established, for drinking water, by the Environmental Protection Agency (EPA), State of Nevada Health Protection Services, and Washoe County District Health Department.

The water served to Lemmon Valley customers is groundwater supplied by five different wells. Customers can expect their water to be a blend of water from the well(s) nearest the customer's residence with any of the other wells.



The wells will be assessed for vulnerability to contamination. This source water assessment identifies the origins of contaminants within the service area and indicates the susceptibility of the water system to such contaminants. If you are aware of a potential source of contamination located near the wells, please contact our water quality section. Source water assessment information is available from our office upon request.

**How can I get more information about this water quality report?**

For more information please call the Washoe County Utility Services Division water quality section at 954-4600.

This table shows results of monitoring the period July 1, 1998 to June 30, 1999. All results are reported in parts per million unless noted. See last page for definitions of terms which have been noted (\*).

**Maximum Contaminant Level (MCL)** - is the highest level of a contaminant allowed in drinking water. MCL's are set at very stringent levels. A person would have to drink two liters of water every day at the MCL for a lifetime to have a one-in-a-million chance of having a related health effect.

**Primary Standards:** Mandatory health related standards established by the State of Nevada, Health Protection Services.

Constituents	MCL* (PPM)	MCLG*	Well #3	Well #5	Well #6	Well #7	Well #8	
Antimony	0.006	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	
Arsenic	0.05	0.05	<0.003	0.005	0.006	0.013	0.008	
Asbestos (MFL)*	7	zero	Not detected in distribution system					
Barium	2	2	0.04	0.06	0.07	0.03	0.06	
Beryllium	0.004	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	
Cadmium	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	
Chromium	0.1	0.1	<0.001	0.001	<0.005	<0.001	0.001	
Cyanide	0.2	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	
Fluoride	4	4	0.13	0.14	0.16	0.20	0.17	
Mercury	0.002	0.002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Nickel	0.1	0.1	<0.005	<0.005	<0.005	<0.005	<0.005	
Nitrate	10	10	7.8 ✓	1.6	1.8	0.8	1.3	
Nitrite	1	1	<0.01	<0.01	<0.01	<0.01	<0.01	
Selenium	0.05	0.05	<0.001	<0.001	0.001	<0.001	<0.001	
Thallium	0.002	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	

✓ 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 agricultural activity. If you are caring for an infant you should ask advice from your health care provider. Well #3 contributes a small amount of water to the water system. Nitrate levels are monitored at least quarterly.

**Secondary Standards:** Aesthetic standards established by the State of Nevada, Health Protection Services.

Constituents	MCL (PPM)	MCLG	Well #3	Well #5	Well #6	Well #7	Well #8
Chloride	400	400	14	5	8	15	5
Color (CU)*	15	15	3	3	4	3	3
Copper	1	1	0	0	0	0.01	0
Fluoride	2	2	0.13	0.14	0.16	0.20	0.17
Foaming Agents (MBAS)	0.5	0.5	<0.1	<0.1	<0.1	<0.1	<0.1
Iron	0.6	0.6	0.01	0.01	0.01	0.08	0
Magnesium	150	150	17	5	9	3	4
Manganese	0.1	0.1	0	0	0	0	0
pH*	6.5 to 8.5	6.5 to 8.5	7.70	8.00	7.80	8.13	7.98
Sulfate	500	500	56	43	57	27	37
Total Dissolved Solids (TDS)	1000	1000	237	231	202	171	222
Zinc	5	5	0	0	0	0	0

**Additional Constituents**

Lead	0.015	zero	<0.005	<0.005	<0.005	<0.005	<0.005
Hardness			147	66	102	45	74
Calcium			31	18	26	13	23
Potassium			4	3	3	2	4
Sodium			20	49	30	40	40
Silica			42	52	44	40	57

**Microbiological** - Routine samples are collected each month throughout the distribution system.

Constituent	MCL	MCLG	Samples Collected	Percent Positive
Total coliform	<5% Positive	0% Positive	58	0%

**Synthetic Organic Chemicals (SOCs)** are man made organic chemicals such as pesticides and herbicides.

Constituents	MCL (PPM)	MCLG	Well #3	Well #5	Well #6	Well #7	Well #8
Alachlor	0.002	zero	ND*	ND	ND	ND	ND
Aldicarb	0.003	zero	ND	ND	ND	ND	ND
Aldicarb sulfone	0.002	zero	ND	ND	ND	ND	ND
Aldicarb sulfoxide	0.004	zero	ND	ND	ND	ND	ND
Atrazine	0.003	0.003	ND	ND	ND	ND	ND
Benzo[a]pyrene	0.0002	zero	ND	ND	ND	ND	ND
Carbofuran	0.04	0.04	ND	ND	ND	ND	ND
Chlordane	0.002	zero	ND	ND	ND	ND	ND
Dalapon	0.2	0.2	ND	ND	ND	ND	ND
Dibromochloropropane	0.0002	zero	ND	ND	ND	ND	ND
Dinoseb	0.007	0.007	ND	ND	ND	ND	ND
Dioxin [2,3,7,8-TCDD]	0.0000003	zero	ND	ND	ND	ND	ND
Diquat	0.02	0.02	ND	ND	ND	ND	ND
Di (2-ethylhexyl) adipate	0.4	0.4	ND	ND	ND	ND	ND
Di (2-ethylhexyl) phthalate	0.006	zero	ND	ND	ND	ND	ND
Endothall	0.1	0.1	ND	ND	ND	ND	ND
Endrin	0.002	0.002	ND	ND	ND	ND	ND
Ethylene dibromide	0.00005	zero	ND	ND	ND	ND	ND
Glyphosate	0.7	0.7	ND	ND	ND	ND	ND
Heptachlor	0.0004	zero	ND	ND	ND	ND	ND
Heptachlor epoxide	0.0002	zero	ND	ND	ND	ND	ND
Hexachlorobenzene	0.001	zero	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	0.05	0.05	ND	ND	ND	ND	ND
Lindane	0.0002	0.0002	ND	ND	ND	ND	ND
Methoxychlor	0.04	0.04	ND	ND	ND	ND	ND
Oxamyl (Vydate)	0.2	0.2	ND	ND	ND	ND	ND
Pentachlorophenol	0.001	zero	ND	ND	ND	ND	ND
Picloram	0.5	0.5	ND	ND	ND	ND	ND
Polychlorinated biphenyls (PCBs)	0.0005	zero	ND	ND	ND	ND	ND
Simazine	0.004	0.004	ND	ND	ND	ND	ND
Toxaphene	0.003	zero	ND	ND	ND	ND	ND
2, 4-D	0.07	0.07	ND	ND	ND	ND	ND
2, 4, 5-TP	0.05	0.05	ND	ND	ND	ND	ND

Synthetic organic chemical data presented is from the most recent testing done in accordance with the Safe Drinking Water Act.

**Radioactivity**

Constituents	MCL	MCLG	Well #3	Well #5	Well #6	Well #7	Well #8
Gross Alpha	15 pCi/l*	zero	<3 pCi/l	3 pCi/l	<3 pCi/l	4 pCi/l	12 pCi/l
Gross Beta	4 mrem/yr*	zero	<3 pCi/l	3 pCi/l	5 pCi/l	4 pCi/l	12 pCi/l
Radon			690 pCi/l	610 pCi/l	450 pCi/l	620 pCi/l	1700 pCi/l

There is no federal regulation for radon levels in drinking water. Exposure to air transmitted radon over a long period of time may cause adverse health effects.

**Lead and Copper** - Seventeen samples were collected, from residential sites, to measure corrosivity.

	Action Level* (PPM)	Exceeding Action Level	90th Percentile
Lead	0.015	0%	<0.005
Copper	1.3	0%	0.05

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 for infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on the appropriate means to lessen the risk of infection by cryptosporidium are available from the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

**Volatile Organic Chemicals (VOCs)** are organic chemicals, which evaporate easily. These include common industrial solvents such as Trichloroethylene.

Constituents	MCL (PPM)	MCLG	Well #3	Well #5	Well #6	Well #7	Well #8
Benzene	0.005	zero	ND	ND	ND	ND	ND
Bromoform	**	zero	ND	ND	ND	ND	ND
Bromodichloromethane	**	zero	ND	ND	ND	0.0017	ND
Carbon tetrachloride	0.005	zero	ND	ND	ND	ND	ND
Chlorobenzene	0.1	0.1	ND	ND	ND	ND	ND
Chloroform	**	zero	ND	ND	ND	0.015	ND
Chlorodibromomethane	**	zero	ND	ND	ND	ND	ND
o-Dichlorobenzene	0.6	0.6	ND	ND	ND	ND	ND
p-Dichlorobenzene	0.075	0.075	ND	ND	ND	ND	ND
1, 2-Dichloroethane	0.005	zero	ND	ND	ND	ND	ND
1,1-Dichloroethylene	0.007	0.007	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.07	0.07	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	0.1	0.1	ND	ND	ND	ND	ND
Dichloromethane	0.005	zero	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.005	zero	ND	ND	ND	ND	ND
Ethylbenzene	0.7	0.7	ND	ND	ND	ND	ND
Monochlorobenzene	0.1	0.1	ND	ND	ND	ND	ND
Styrene	0.1	0.1	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	0.005	0.005	ND	ND	ND	ND	ND
Toluene	1	1	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.07	0.07	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.2	0.2	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.005	0.003	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	0.005	zero	ND	ND	ND	ND	ND
Vinyl chloride	0.002	zero	ND	ND	ND	ND	ND
Xylenes (Total)	10	10	ND	ND	ND	ND	ND

\*\*The sum of these four constituents composes the group known as total trihalomethanes. The MCL for total trihalomethanes is 0.10 PPM.

In this report you may find terms or abbreviations you may not be familiar with. To help you better understand these terms we have provided the following definitions:

**Action Level** is the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

**CU - Color unit** is the standard unit of measure for water color.

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

**MCLG - Maximum Contaminant Level Goal** is the level of a contaminant in drinking water in which there is no known or expected risk to health. MCLGs allow for a margin of safety.

**MFL - Million fibers per liter** is a measure of asbestos fibers that are longer than 10 micrometers.

**mrem/yr - Millirems per year** is a measure of radiation absorbed by the body in one year.

**ND - Not Detected** - Laboratory analysis indicates that the constituent has not been detected.

**PPM - Parts per million** corresponds to one penny in \$10,000 (same as Milligrams per liter).

**pCi/l - Picocuries per liter** is a measure of water radioactivity.

**pH** is a measure of acidity. A pH value of one is extremely acidic, seven is neutral, and 14 is alkaline.

The symbol "<" mean less than.

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants in drinking water does not necessarily indicate that the drinking water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (800-426-4791).