

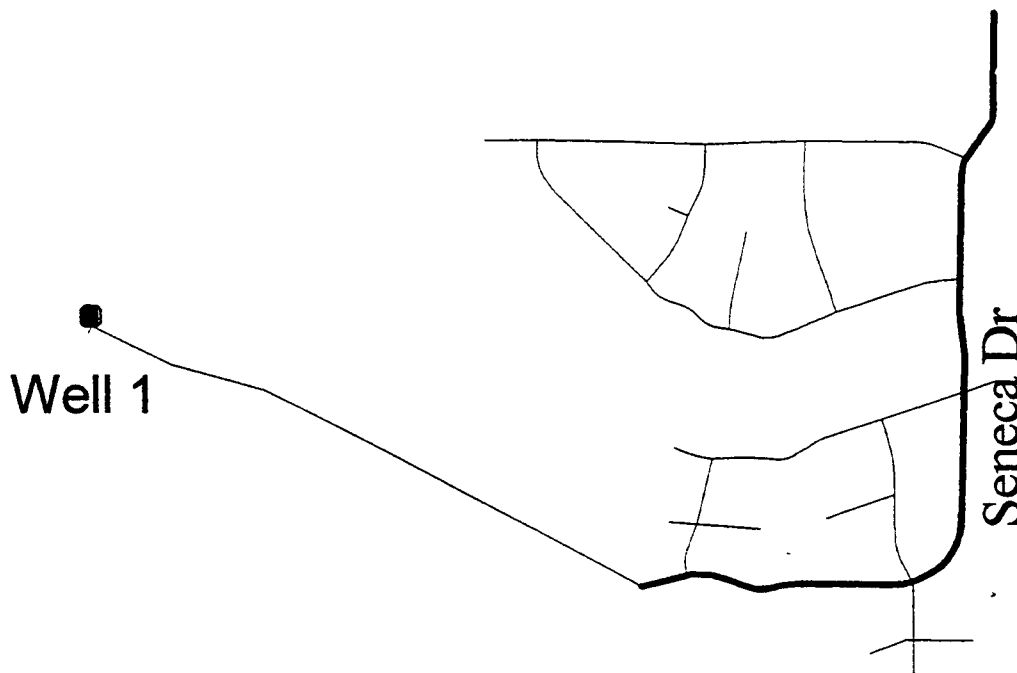
Washoe County Utility Services Division

1999 Water Quality Report for the Horizon Hills 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.

Water served to Horizon Hills customers is groundwater supplied by one well. The well water exceeds the standards for iron and manganese, however, there is a treatment system in place so the levels of these elements are reduced in the distribution system. The average distribution results are listed. We are working towards connecting Horizon Hills to a new source of water which will have better water quality.



The well 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 well, 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 for 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*	Horizon Hills Well	System Average
Antimony	0.006	0.006	<0.001	<0.001
Arsenic	0.05	0.05	<0.003	<0.003
Asbestos (MFL)*	7	zero	Not detected in distribution system	
Barium	2	2	0.02	0.02
Beryllium	0.004	0.004	<0.001	<0.001
Cadmium	0.005	0.005	<0.001	<0.001
Chromium	0.1	0.1	<0.005	<0.005
Cyanide	0.2	0.2	<0.01	<0.01
Fluoride	4	4	0.14	0.16
Mercury	0.002	0.002	<0.0005	<0.0005
Nickel	0.1	0.1	<0.005	<0.005
Nitrate	10	10	0	0
Nitrite	1	1	<0.01	<0.01
Selenium	0.05	0.05	<0.001	<0.001
Thallium	0.002	0.0005	<0.0005	<0.0005

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

Constituents	MCL (PPM)	MCLG	Horizon Hills Well	System Average
Chloride	400	400	2	3.5
Color (CU)*	15	15	3	3
Copper	1	1	0	0
Fluoride	2	2	0.14	0.16
Foaming Agents (MBAS)	0.5	0.5	<0.1	<0.1
Iron	0.6	0.6	1.47	0.06
Magnesium	150	150	28	28
Manganese	0.1	0.1	0.33	0.08
pH*	6.5 to 8.5	6.5 to 8.5	7.50	7.54
Sulfate	500	500	178	180
Total Dissolved Solids (TDS)	1000	1000	384	384
Zinc	5	5	0	0.02

Additional Constituents Analyzed

Lead	0.015	zero	<0.005	<0.005
Hardness	No Standard	No Standard	263	262
Calcium	No Standard	No Standard	59	59
Potassium	No Standard	No Standard	2	2
Sodium	No Standard	No Standard	24	24
Silica	No Standard	No Standard	34	34

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

Constituent	MCL	MCLG	Samples Collected	Percent Positive
Total coliform	<5% Positive	0% Positive	34	0%

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

Constituents	MCL (PPM)	MCLG	Horizon Hills Well
Alachlor	0.002	zero	ND*
Aldicarb	0.003	zero	ND
Aldicarb sulfone	0.002	zero	ND
Aldicarb sulfoxide	0.004	zero	ND
Atrazine	0.003	0.003	ND
Benzo[a]pyrene	0.0002	zero	ND
Carbofuran	0.04	0.04	ND
Chlordane	0.002	zero	ND
Dalapon	0.2	0.2	ND
Dibromochloropropane	0.0002	zero	ND
Dinoseb	0.007	0.007	ND
Dioxin [2,3,7,8-TCDD]	0.00000003	zero	ND
Diquat	0.02	0.02	ND
Di (2-ethylhexyl) adipate	0.4	0.4	ND
Di (2-ethylhexyl) phthalate	0.006	zero	ND
Endothall	0.1	0.1	ND
Endrin	0.002	0.002	ND
Ethylene dibromide	0.00005	zero	ND
Glyphosate	0.7	0.7	ND
Heptachlor	0.0004	zero	ND
Heptachlor epoxide	0.0002	zero	ND
Hexachlorobenzene	0.001	zero	ND
Hexachlorocyclopentadiene	0.05	0.05	ND
Lindane	0.0002	0.0002	ND
Methoxychlor	0.04	0.04	ND
Oxamyl (Vydate)	0.2	0.2	ND
Pentachlorophenol	0.001	zero	ND
Picloram	0.5	0.5	ND
Polychlorinated biphenyls (PCBs)	0.0005	zero	ND
Simazine	0.004	0.004	ND
Toxaphene	0.003	zero	ND
2, 4-D	0.07	0.07	ND
2, 4, 5-TP	0.05	0.05	ND

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

Radioactivity	MCL	MCLG	Horizon Hills Well
Gross Alpha	15 pCi/l*	zero	<3 pCi/l
Gross Beta	4 mrem/yr*	zero	<3 pCi/l
Radon			310 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 - Twenty 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%	0.11

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 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	Horizon Hills Well
Benzene	0.005	zero	ND
Bromoform	**	zero	ND
Bromodichloromethane	**	zero	ND
Carbon tetrachloride	0.005	zero	ND
Chlorobenzene	0.1	0.1	ND
Chloroform	**	zero	ND
Chlorodibromomethane	**	zero	ND
o-Dichlorobenzene	0.6	0.6	ND
p-Dichlorobenzene	0.075	0.075	ND
1, 2-Dichloroethane	0.005	zero	ND
1,1-Dichloroethylene	0.007	0.007	ND
cis-1,2-Dichloroethylene	0.07	0.07	ND
trans-1,2-Dichloroethylene	0.1	0.1	ND
Dichloromethane	0.005	zero	ND
1,2-Dichloropropane	0.005	zero	ND
Ethylbenzene	0.7	0.7	ND
Monochlorobenzene	0.1	0.1	ND
Styrene	0.1	0.1	ND
Tetrachloroethylene (PCE)	0.005	0.005	ND
Toluene	1	1	ND
1,2,4-Trichlorobenzene	0.07	0.07	ND
1,1,1-Trichloroethane	0.2	0.2	ND
1,1,2-Trichloroethane	0.005	0.003	ND
Trichloroethylene (TCE)	0.005	zero	ND
Vinyl chloride	0.002	zero	ND
Xylenes (Total)	10	10	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).