

MT ROSE

# WATER QUALITY REPORT

## 2005

WQCCR-00036



WASHOE COUNTY DEPARTMENT OF WATER RESOURCES

# Mt. ROSE

## Water Quality Report 2005

CONSTITUENT	UNITS	MCL	MCLG	Mt. ROSE WELL#2 (BACK-UP ONLY)	Mt. ROSE WELL#3	Mt. ROSE WELL#5	Mt. ROSE WELL#6	ST JAMES WELL#1	ST. JAMES WELL #2	TIMBERLINE WELL
<b>PRIMARY STANDARDS</b>										
Antimony	ug/L	6	6	<2	<1	<1	<1	<1	<1	<1
Arsenic	ug/L	50	0	<2	<3	<3	<3	<1	<1	<3
Asbestos	mfl	7	7				Not Detected			
Barium	mg/L	2	2	0.08	0.04	0.07	0.07	0.10	0.09	0.12
Beryllium	ug/L	4	4	<2	<1	<1	<1	<1	<1	<1
Cadmium	ug/L	5	5	<2	<1	<1	<1	<1	<1	<1
Chromium	ug/L	100	100	<2	2	2	3	16	11	<5
Cyanide	ug/L	200	200	<5	<5	<1	<5	<5	<5	<1
Fluoride	mg/L	4	4	<0.1	<0.1	<0.1	0.1	0.1	<0.1	0.1
Mercury	ug/L	2	2	<0.5	<0.5	<0.5	<0.5	<0.2	<0.2	<0.5
Nickel	ug/L	100	100	<2	<1	<1	<1	<1	<1	<5
Nitrate (as N)	mg/L	10	10	4.4	3.1	0.4	0.2	0.2	0.2	0.5
Nitrite (as N)	mg/L	1	1	0	0	0	0	0	0	0
Selenium	ug/L	50	50	<2	<1	2	<1	<1	<1	<1
Thallium	ug/L	2	0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

### SECONDARY STANDARDS

Chloride	mg/L	400	250	18	2	1	1	2	2	9
Color	cu	15	15	3	3	3	3	<5	<5	3
Copper	mg/L	1	1	0.004	0.01	0	0.02	0.02	0.01	0.2
Fluoride	mg/L	2	2	<0.1	<0.1	<0.1	0.1	0.1	<0.1	0.1
Foaming Agents (MBAS)	mg/L	0.5	0.5	0	0	0	0	0	0	0
Iron	mg/L	0.6	0.3	0.4	0.01	0	0.02	0.2	0.01	0.02
Magnesium	mg/L	150	125	12	8	9	10	12	11	23
Manganese	mg/L	0.1	0.05	0.01	0	0	0	0.01	0	0
pH		6.5 to 8.5	6.5 to 8.5	7.7	7.7	7.6	7.8	7.9	7.7	8.0
Sulfate	mg/L	500	250	3	1	1	2	2	1	5
Zinc	mg/L	5	5	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1
Total Dissolved Solids	mg/L	1000	500	200	135	155	178	200	165	242

### ADDITIONAL CONSTITUENTS

Calcium	mg/L	No standard	No standard	22	14	17	17	18	18	29
Hardness	mg/L	No standard	No standard	100	68	80	88	94	90	172
Lead	ug/L	15	0	<5	<5	<5	<5	<5	<5	<5
Potassium	mg/L	No standard	No standard	4	4	5	6	5	4	5
Silica	mg/L	No standard	No standard	59	63	63	62	69	69	62
Sodium	mg/L	No standard	No standard	11	7	9	13	12	10	13
Haloacetic Acids	ug/L	60	0		0			0		3
Trihalomethanes	ug/L	80	0		0			0		18

### RADIOACTIVITY

Gross Alpha	pCi/L	15	0	<3	<3	<3	<3	<3	<3	4
Gross Beta	pCi/L	50	0	6	5	5	6	6	4	6
Radon	pCi/L	No standard	0	670	1000	810	340	490	490	560

### MICROBIOLOGY

Total Coliform		1 Positive Sample/Month	Zero Positive Samples	Coliform Was Not Detected in the Water Supply						
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### LEACHABLE LEAD AND COPPER

Lead	ug/L	15						0		1
Copper	mg/L	1.3						0		0.31

### 90TH PERCENTILE CONCENTRATIONS

4  
0.52

WELL MAP



NEVADA SOURCE WATER ASSESSMENT PROGRAM SUMMARY SHEET  
STATE OF NEVADA DEPARTMENT OF HUMAN RESOURCES - HEALTH DIVISION  
BUREAU OF HEALTH PROTECTION SERVICES

SUMMARY DATE: 04/14/2005 ASSESSOR: STATE

The federal Safe Drinking Water Act (SDWA) was amended in 1996 to require states to develop and implement source water assessment programs (SWAP) to analyze existing and potential threats to the quality of public drinking water throughout the state. The 1996 Amendments also required a summary of the findings of the assessment to be included in the water system's annual Water Quality Report. The 1996 Amendments specifically required states to delineate areas that are sources of public drinking water, identify potential contamination sources within the delineated area, assess the water system's susceptibility to contamination, and to inform the public of the results. These results are summarized below.

WATER SYSTEM CONTACT INFORMATION

Water System: <b>MT. ROSE</b> System ID Number: 3030	Connections: 742	County: Washoe Population: 1,855
Water System: <b>ST. JAMES</b> ID Number: 900	Connections: 102	County: Washoe Population: 255
Water System: <b>TIMBERLINE ESTATES</b> ID Number: 802 Owner: Washoe County	Connections: 30 Address: 4930 Energy Way • Reno, NV 89502 Telephone: (775) 954-4600 Fax: (775) 954-4610 Address: 4930 Energy Way • Reno, NV 89502	County: Washoe Population: 75
Operator: Washoe County		

FEDERAL AND STATE WATER QUALITY STANDARDS COMPLIANCE

- ☒ If filled in, the above referenced water systems are in compliance with all State of Nevada and federal water quality standards.

THE **MOUNT ROSE** WATER COMPANY UTILIZES FOUR WELLS. THIS PUBLIC WATER SYSTEM PRESENTLY DELIVERS DRINKING WATER THAT MEETS ALL STATE DRINKING WATER STANDARDS. THE WATER SYSTEM MAINTAINS A STAFF OF WELL-TRAINED PROFESSIONALS WHO OPERATE AND MAINTAIN THE SYSTEM.

THE **ST. JAMES** PUBLIC WATER SYSTEM UTILIZES TWO WELLS. THE ST. JAMES PUBLIC WATER SYSTEM SOURCES ARE CONSIDERED TO HAVE A LOW POTENTIAL FOR CONTAMINATION TO MAN-MADE CONTAMINANTS. THIS PUBLIC WATER SYSTEM PRESENTLY DELIVERS DRINKING WATER THAT MEETS ALL STATE DRINKING WATER STANDARDS. THE WATER SYSTEM MAINTAINS A STAFF OF WELL-TRAINED PROFESSIONALS WHO OPERATE AND MAINTAIN THE SYSTEM.

THE **TIMBERLINE ESTATES** PUBLIC WATER SYSTEM UTILIZES ONE WELL. THIS PUBLIC WATER SYSTEM PRESENTLY DELIVERS DRINKING WATER THAT MEETS ALL STATE DRINKING WATER STANDARDS. THE WATER SYSTEM SERVES A GROWING POPULATION AND MAINTAINS A STAFF OF WELL-TRAINED PROFESSIONALS WHO OPERATE AND MAINTAIN THE SYSTEM.

WATER SYSTEM CONTAMINATION VULNERABILITY

- ☒ If filled in, the above referenced water systems are considered to have low vulnerability potential from contamination.  
The above referenced water system is considered potentially vulnerable to the following contaminant groups:

Volatile Organic Compounds ☐      Inorganic Compounds ☒      Microbiological ☒  
Synthetic Organic Compounds ☐      Radionuclides ☐

Volatile Organic Compounds (VOC) are typically associated with gas stations and dry cleaners; Synthetic Organic Compounds (SOC) are typically associated with herbicides and insecticides; Inorganic Compounds (IOC) are typically associated with natural deposits, fertilizers and septic systems; microbiological contaminants are typically associated with lakes, streams; and radionuclides are typically associated with erosion of natural deposits.

The water systems are considered vulnerable to the activities/sources associated with the contaminant groups checked in the boxes above for the following reasons:

**MT. ROSE** - TWO WELLS ARE CONSIDERED TO BE VULNERABLE TO NITRATE CONTAMINATION AS NITRATE LEVELS HAVE EXCEEDED ONE HALF THE NITRATE STANDARD. ADDITIONAL MONITORING FOR NITRATE IS REQUIRED AT THESE WELLS. THERE IS A MODERATE TO LOW RISK FOR ASBESTOS TO CONTAMINATE THE DRINKING WATER. PORTIONS OF THE WATER DISTRIBUTION SYSTEM HAVE BEEN CONSTRUCTED USING ASBESTOS CEMENT PIPE. THE WATER SYSTEM IS PRESENTLY IN COMPLIANCE WITH ALL STATE AND FEDERAL MAXIMUM CONTAMINANT LEVELS FOR DRINKING WATER.

**ST. JAMES** - AT THE TIME OF THE ASSESSMENT THERE WERE NO IDENTIFIED SOURCES OF POTENTIAL CONTAMINATION TO THE AQUIFER PROVIDING THE WATER TO THE WATER SYSTEM, OR THE SOURCES OF POTENTIAL CONTAMINATION WERE DETERMINED TO POSE A LOW POTENTIAL TO CONTAMINATE THE DRINKING WATER SYSTEM.

**TIMBERLINE ESTATES** - THE PUBLIC WATER SYSTEM SOURCE (WELL) IS CONSIDERED TO BE MODERATELY VULNERABLE TO CONTAMINATION FROM MICROBIOLOGICAL CONTAMINANTS. THE WATER SYSTEM IS PRESENTLY IN COMPLIANCE WITH ALL STATE AND FEDERAL MAXIMUM CONTAMINANT LEVELS FOR DRINKING WATER.

A copy of the complete source water assessment is available for viewing at the Bureau of Health Protection Services (BHPS) Carson City office between the hours of 8:00 AM and 5:00 PM, Monday through Friday. It is suggested that an appointment be made if you are interested in viewing a report. The BHPS office is located at 1179 Fairview Drive, Suite 101, Carson City, Nevada 89701-5405. Telephone 1-775-687-4754 Toll Free 1-800-992-0900.

## WHY WE TEST THE WATER

The Washoe County Department of Water Resources (DWR) is known as "the water place" because it is a leader in providing integrated water resources. These services are critical to the region's quality of life. They include utility services (water, sewer, and reclaimed water) and water resource planning services (flood management, remediation of contaminated groundwater, and development of water resource plans).

The DWR is committed to be the leader in the provision of integrated water resource services to our community. Our mission is to provide quality product and service to our community through teamwork, accountability and professionalism.

Regular testing of the water resources is one way we fulfill that mission. This report summarizes water quality data for the period July 1, 2004 to June 30, 2005.

To contact the Washoe County Department of Water Resources, call 954-4600 or visit [www.washoecounty.us/water](http://www.washoecounty.us/water).

## HOW TO READ THE WATER QUALITY CHART

The far left column, titled Constituents, lists the naturally occurring and man-made inorganic contaminants that are monitored by the Washoe County Department of Water Resources, according to U.S. Environmental Protection Agency (EPA) standards. The Primary Inorganic Standards are monitored to ensure the water is safe to drink, and the Secondary Inorganic Standards are monitored to ensure the water is aesthetically pleasing.

The second column, titled Maximum Contaminant Level (MCL), is the highest level of a contaminant allowed in drinking water defined by the EPA. The third column, titled Maximum Contaminant Level Goal (MCLG), is the level of a contaminant in the drinking water in which there is no known or expected risk to health defined by the EPA.

The remaining columns show what contaminant level, if any, was contained in the water sources. In most cases, the water served to customers is a blend of the sources listed. The map shows the sources that supply water to the system.

## THINGS TO KNOW ABOUT YOUR H<sub>2</sub>O

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).

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 people, 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).

## DEFINITIONS

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

**Color Units (CU)** – is the standard unit of measure for water color.

**Maximum Contaminant Level (MCL)** – 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.

**Maximum Contaminant Level Goal (MCLG)** – 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.

**Micrograms per liter (ug/L)** – one microgram per liter corresponds to one penny in \$10,000,000 (same as parts per billion or ppb).

**Milligrams per liter (mg/L)** – one milligram per liter corresponds to one penny in \$10,000 (same as parts per million or ppm).

**pH** – is a measure of acidity. A pH value of less than 7 is acidic, values greater than 7 are alkaline.

**Picocuries per liter (pCi/L)** – is a measure of water radioactivity.

**The symbol "<"** – means less than.

## NITRATE

Nitrate in drinking water at levels above 10 mg/L 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 rain-fall or agricultural activity. The nitrates are leaching from septic tanks. If you are caring for an infant, you should ask advice from your local health care provider.

## LEAD AND COPPER

The Washoe County Department of Water Resources has completed monitoring in compliance with the Lead and Copper Rule. According to the Rule, the 90th percentile lead and copper concentrations are not to exceed action levels of 15 ug/L for lead and 1.3 mg/L for Copper. Please refer to the table for the most recent lead and copper results. If you would like more information regarding the Rule or would like to participate in future sampling please contact our office.

## CONTACT INFORMATION

If you have any questions regarding the material presented in this report, please contact the Washoe County Department of Water Resources at:

4930 Energy Way • Reno, NV 89502 • (775) 954-4600  
[www.washoecounty.us/water](http://www.washoecounty.us/water)