## 2003 Consumer Confidence Report

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| Water System Name: | **LAKE BERRYESSA MARINA RESORT** | Report Date: | JUNE 27,2004 |

*We test the drinking water quality for many constituents as required by State and Federal Regulations. This report shows the results of our monitoring for the period of January 1 - December 31, 2003.*

**Este informe contiene información muy importante sobre su agua beber. Tradúzcalo ó hable con alguien que lo entienda bien.**

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| Type of water source(s) in use: | Surface Water | | | | | |
| Name & location of source(s): | Lake Berryessa, Napa County, California | | | | | |
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| Drinking Water Source Assessment information: | | N/A | | | | |
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| Time and place of regularly scheduled board meetings for public participation: | | | | | None | |
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| *For more information, contact* | CHUCK VAUGHN | | | *Phone:* | | (707) 966-2161 |
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| ***TERMS USED IN THIS REPORT:*** | | | | | | |
| **Maximum Contaminant Level (MCL)**: The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.  **Primary Drinking Water Standards (PDWS)**: MCLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.  **Secondary Drinking Water Standards (SDWS):** MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.  **ND**: not detectable at testing limit  **ppm**: parts per million or milligrams per liter (mg/L)  **ppb**: parts per billion or micrograms per liter (ug/L)  **ppt**: parts per trillion or nanograms per liter (ng/L)  **pCi/L**: picocuries per liter (a measure of radiation) | | | **Public Health Goal (PHG)**: 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.  **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 are set by the U.S. Environmental Protection Agency (USEPA).  Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water  **Regulatory Action Level (AL)**: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.  Variances and Exemptions: Department permission to exceed an MCL or not comply with a treatment technique under certain conditions. | | | |

**The sources of drinking water** (both tap water 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 from human activity.

**Contaminants that may be present in source water include:**

* *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 such as agriculture, urban stormwater runoff, and residential uses.
* *Organic chemical contaminants*, including synthetic and volatile organic chemicals, that are byproducts 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 be the result of oil and gas production and mining activities.

**In order to ensure that tap water is safe to drink**, USEPA and the state Department of Health Services (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.

**Tables 1, 2, 3, 4, and 5 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent**. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The Department requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, are more than one year old.

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| **Table 1 - sampling results showing the detection of coliform bacteria** | | | | | | |
| **Microbiological Contaminants**  (to be completed only if there was a detection of bacteria ) | **Highest No. of detections** | **No. of months in violation** | **MCL** | | **MCLG** | **Typical Source of Bacteria** |
| Total Coliform Bacteria | (In a mo.) | 0 | More than 1 sample in a month with a detection | | 0 | Naturally present in the environment |
| Fecal Coliform or  *E. coli* | (In the year) | 0 | A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or *E. coli* | | 0 | Human and animal fecal waste |
| **Table 2 - sampling results showing the detection of Lead and copper** | | | | | | |
| **Lead and Copper**  (to be completed only if there was a detection of lead or copper in the last sample set) | **No. of samples collected** | **90th percentile level detected** | **No. Sites exceeding AL** | **AL** | **MCLG** | **Typical Source of Contaminant** |
| Lead (ppb) | 10 | <0.005 | 0 | 15 | 2 | Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits. |
| Copper (ppm) | 10 | <0.05 | 0 | 1.3 | 0.17 | Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives. |
| **TAble 3 - sampling results for sodium and hardness** | | | | | | |
| **Chemical or Constituent** (and reporting units) | **Sample Date** | **Level Detected** | **Range of Detections** | **MCL** | **PHG**  **(MCLG)** | **Typical Source of Contaminant** |
| Sodium (ppm) | 11/3/03 | 12 | 12 | none | none | Generally found in ground and surface water |
| Hardness (ppm) | 11/3/03 | 196 | 196 | none | none | Generally found in ground and surface water |

**\****Any violation of an MCL or AL is asterisked. Additional information regarding the violation is provided on the next page.*

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| **TAble 4 - detection of contaminants with a Primary Drinking Water Standard** | | | | | | | | | |
| **Chemical or Constituent** (and reporting units) | **Sample Date** | **Level Detected** | | **Range of Detections** | | **MCL** | | **PHG**  **(MCLG)** | **Typical Source of Contaminant** |
| Aluminum | 11/3/03 | <506ppb | | <50 | | 1 | | .6 | Erosion of natural deposits; residue from some surface water treatment processes |
| Antimony | 11/3/03 | <6ppb | | 6 | | 6 | | 20 | Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder |
| Arsenic | 11/3/03 | 2.01ppb | | 2 | | 50 | | N/A | Erosion of natural deposits; runoff from orchards; glass and electronics production wastes |
| Barium | 11/3/03 | .1ppm | | .1 | | 1 | | 2 | Discharge of oil drilling wastes and from metal refineries: erosion of natural deposits |
| Beryllium | 11/3/03 | <1ppb | | 1 | | 4 | | 4 MGLG | Discharge of oil drilling wastes and from metal refineries: erosion of natural deposits |
| Cadmium | 11/3/03 | 1ppb | | 1 | | 5 | | .07 PHG | Internal corrosion of galvanized pipes: erosion of natural deposits; discharge from electroplating and industrial chemical factories and metal refineries; runoff from waste batteries and paints |
| Chromium | 11/3/03 | <101 ppm | | 1.01 | | 50 | | 100 MCLG | Discharge from steel and pulp mills and chrome plating; erosion of natural deposits |
| Mercury | 11/3/03 | <1 ppb | | 1 | | 2 | | 1.2 PHG | Erosion of natural deposits; discharge from refineries and factories: runoff from landfills; runoff from cropland |
| Nickel | 11/3/03 | <10 ppb | | 10 | | 1 | | 1 PHG | Erosion of natural deposits; discharge from metal factories |
| Njitrite | 11/3/03 | <4ppb | | 1 | | 1 | | 1 PHG | Runoff and leaching from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits |
| Selenium | 11/3/03 | <5 ppb | | 5 | | 50 | | 50 MCLG | Discharge from petroleum, glass and metal refineries: erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive) |
| Thallium | 11/3/03 | <1 ppb | | 1 | | 2 | | 1 PHG | Leaching from ore-processing |
| **TAble 5 - detection of contaminants with a Secondary Drinking Water Standard** | | | | | | | | | |
|  | **Sample Date** | **Level Detected** | | **Range of Detections** | | **MCL** | | **PHG**  **(MCLG)** | Typical Source of Contaminant |
| Color | 11/3/03 | 3.1 UNITS | | 3.1 | | 15 | | N/A | Naturally occurring organic materials |
| Copper | 11/3/03 | .05 ppm | | .05 | | 1 | | N/A | Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives |
| Iron | 11/3/03 | <100 ppb | | 100 | | 300 | | N/A | Leaching from natural deposits; industrial wastes |
| Manganese | 11/3/03 | <20ppb | | 20 | | 50 | | N/A | Leaching from natural deposits |
| Odor-Threshold | 11/3/03 | 1.9 ton | | 1.9 | | 3 | | N/A | Naturally occurring organic materials |
| Silver | 11/3/03 | <10 ppb | | 10 | | 100 | | N/A | Industrial discharges |
| Zinc | 11/3/03 | .o5 ppm | | .05 | | 5 | | N/A | Runoff/leaching from natural deposits; industrial wastes |
| Specific Conductance | 11/03/03 | 360 | | 900-2200 | | 1600 | | N/A | Substances that form ions when in water; seawater influence |
| Chloride | 11/3/03 | 6.0ppm | | 6.0 | | 500 | | N/A | Runoff/leaching from natural deposits; seawater influence |
| Sulfate | 11/3/03 | 23 ppm | | 23 | | 500 | | N/A | Runoff/leaching from natural deposits; industrial wastes |
| TABLE 6 - DETECTION OF UNREGULATED CONTAMINANTS | | | | | | | | | |
| **Chemical or Constituent** | **Sample Date** | | **Level Detected** | | **Action Level** | | **Health Effects Language** | | |
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**Additional General Information On Drinking Water**

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA’s Safe Drinking Water Hotline (1-800-426-4791).

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

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**Summary Information for Contaminants Exceeding an MCL or AL, or a Violation of any Treatment or Monitoring and Reporting Requirements**

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**For Systems Providing Surface Water As A Source Of Drinking Water:**

*(Refer to page 1, “Type of Water Source” to see if your source of water is surface water or groundwater)*

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| **Table 7 - sampling results showing TREATMENT OF  SURFACE WATER SOURCES** | |
| *Treatment Technique* \*  (Type of approved filtration technology used) |  |
| *Turbidity Performance Standards* \*\* (that must be met through the water treatment process) | Turbidity of the filtered water must:  1 - Be less than or equal to \_\_0.5\_\_\_ NTU in 95% of measurements in a month.  2 - Not exceed \_1.o\_\_\_\_ NTU for more than eight consecutive hours.  3 - Not exceed 5.0\_\_\_\_\_ NTU at any time. |
| Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1. | 100% |
| Highest single turbidity measurement during the year | ..280 |
| The number of violations of any surface water treatment requirements | 0 |

\* A required process intended to reduce the level of a contaminant in drinking water.

\*\* Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.

**Summary Information for Surface Water Treatment**

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