MAYWOOD MUTUAL WATER COMPANY #1 2005 ANNUAL WATER QUALITY REPORT

Results are from the most recent testing performed in accordance with state and federal drinking water regulations

PRIMARY STANDARDS MONITORED AT THE SOURCE-MANDATED FOR PUBLIC HEALTH

| ORGANIC | GROUN | GROUNDWATER | | MWD'S SURFACE WATER | | MCLG | MAJOR SOURCES IN DRINKING WATER |
|-------------------------------|-----------------------|-------------------|---------------------|---------------------|--------|---------|------------------------------------------------------------------------------|
| CHEMICALS (µg/l) | AVERAGE | RANGE | AVERAGE | RANGE | MCL | or PHG | |
| | (a) | (a) | (a) | (a) | | | |
| NORGANICS Sampled | from 2003 to 2005 (b) |) | | | | | |
| Aluminum (mg/l) | ND | ND | ND | ND-0.1 | 1 | 0.6 (c) | Erosion of natural deposits; residue from surface water treatment processes |
| Barium (mg/l) | 0.14 | 0.12-0.16 | ND | ND-0.1 | 1 | 2 (c) | Oil drilling waste and metal refinery discharge; erosion of natural deposits |
| -luoride (mg/l) | 0.44 | 0.43-0.44 | 0.19 | 0.11-0.27 | 2.0 | 1 (c) | Erosion of natural deposits, water additive that promotes strong teeth |
| Nitrate (mg/l as N) | ND | ND-0.75 | 0.53 | ND-1.1 | 10 | 10 (c) | Runoff and leaching from fertilizer use/septic tanks/sewage, natural erosion |
| | | | | | | | |
| RADIOLOGICAL - (pCi/l) Analyz | ed 4 consecutive quar | ters every 4 year | s (results are from | 2002 to 2005) (b) | | | |
| Gross Alpha (d) | ND | ND-3.4 | ND | ND-3.2 | 15 (e) | 0 | Erosion of natural deposits |
| Gross Beta | NA | NA | ND | ND-6.4 | 50 (e) | 0 | Decay of natural and man-made deposits |

PRIMARY STANDARDS MONITORED IN THE DISTRIBUTION SYSTEM - MANDATED FOR PUBLIC HEALTH

| | DISTRIBL | PRIMARY | MCLG | | |
|------------------------------------|--------------------|---------------------|--------------|--------|--------------------------------------|
| MICROBIALS | AVERAGE # POSITIVE | RANGE OF # POSITIVE | MCL | or PHG | |
| Total Coliform Bacteria | 0 | 0 | < 1 positive | 0 | Naturally present in the environment |
| Fecal Coliform and E.Coli Bacteria | 0 | 0 | 0 | 0 | Human and animal fecal waste |
| No. of Acute Violations | Ō | 0 | - | - | |

| DISINFECTION | DISTRIBL | PRIMARY | MCLG | | |
|------------------------------|----------|---------|------|--------|-------------------------------------------|
| BY-PRODUCTS(f) | AVERAGE | RANGE | MCL | or PHG | |
| Trihalomethanes-TTHMS (µg/l) | 56 | 12-82 | 80 | - | By-product of drinking water chlorination |
| Haloacetic Acids (µg/I) | 21 | 2-49 | 60 | - | By-product of drinking water disinfection |
| | | | | | |

| | DISTRIBL | | | | |
|--------------------------------|----------|---------|---------|---------|-------------------------------------------------|
| | AVERAGE | RANGE | | | |
| Turbidity (NTU) | 1.8 | 0.1-3.1 | TT | - | Soil runoff |
| Total Chlorine Residual (mg/l) | 0.4 | ND-2.5 | 4.0 (g) | 4.0 (h) | Drinking water disinfectant added for treatment |

| AT THE TAP | DISTRIBL | PRIMARY | MCLG | | |
|--------------------------|----------|-------------------------|--------|----------|------------------------------------------------------------------------------|
| PHYSICAL CONSTITUENTS | 90%ile | # OF SITES ABOVE THE AL | | | |
| 20 sites sampled in 2004 | 90 /6ile | # OF SITES ABOVE THE AL | MCL | or PHG | |
| Copper (mg/l) | 0.21 (i) | 0 | 1.3 AL | 0.17 (c) | Internal corrosion of household plumbing, erosion of natural deposits |
| Lead (µg/l) | 7.3 (i) | 1 | 15 AL | 2 (c) | Internal corrosion of household plumbing, industrial manufacturer discharges |

SECONDARY STANDARDS MONITORED AT THE SOURCE-FOR AESTHETIC PURPOSES

| | GROUNDWATER | | MWD'S SURFACE WATER | | SECONDARY | MCLG |] |
|------------------------------------|-------------|-----------|---------------------|-----------|---------------|---------|----------------------------------------------------------------------------|
| | AVERAGE | RANGE | AVERAGE | RANGE | MCL | or PHG | |
| Aggressiveness Index (corrosivity) | 12.1 | 12-12.2 | NA | NA | Non-corrosive | - | Natural/industrially-influenced balance of hydrogen/carbon/oxygen in water |
| Aluminum (µg/l) (j) | ND | ND | ND | ND-123 | 200 | 600 (c) | Erosion of natural deposits, surface water treatment process residue |
| Chloride (mg/l) | 52 | 48-56 | 68 | 47-85 | 500 | - | Runoff/leaching from natural deposits, seawater influence |
| Color (color units) | 4 | 3-5 | 2 | 1-4 | 15 | - | Naturally-occurring organic materials |
| Conductivity (umhos/cm) | 690 | 650-730 | 694 | 477-876 | 1,600 | - | Substances that form ions when in water, seawater influence |
| Langlier Index (corrosivity) (SI) | NA | NA | 0.24 | 0.05-0.52 | Non-corrosive | - | Natural/industrially-influenced balance of hydrogen/carbon/oxygen in water |
| Manganese (μg/l) | 82 | 76-90 (k) | ND | ND | 50 | - | Leaching from natural deposits |
| Odor (threshold odor number) | 1 | 1 | 2 | 2-3 | 3 | - | Naturally-occurring organic materials |
| Sulfate (mg/l) | 98 | 86-110 | 139 | 55-206 | 500 | - | Runoff/leaching from natural deposits, industrial wastes |
| Total Dissolved Solids (mg/l) | 425 | 400-450 | 407 | 270-532 | 1,000 | - | Runoff/leaching from natural deposits |
| Turbidity (NTU) | 0.61 | 0.29-0.92 | 0.06 | 0.04-0.07 | 5 | - | Soil runoff |

SECONDARY STANDARDS MONITORED IN THE DISTRIBUTION SYSTEM-FOR AESTHETIC PURPOSES

| GENERAL | DISTRIBL | SECONDARY | MCLG | |
|------------------------------|---------------|-----------|------|--------|
| PHYSICAL CONSTITUENTS | AVERAGE RANGE | | MCL | or PHG |
| Color (color units) | <3 | <3 | 15 | - |
| Odor (threshold odor number) | 1 | 1 | 3 | _ |

ADDITIONAL CHEMICALS OF INTEREST

| | GROUN | IDWATER | MWD'S SUR | FACE WATER | |
|-------------------------------|---------|---------|-----------|---------------------------------------------------|--|
| | AVERAGE | RANGE | AVERAGE | RANGE | |
| Alkalinity (mg/l) | 175 | 170-180 | 89 | 76-101 | |
| Boron (µg/l) | NA | NA | 167 | 130-220 | |
| Bromate (µg/I) | NA | NA | NA | ND-8.8 24-53 12-23 | |
| Calcium (mg/l) | 75 | 64-85 | 40 | | |
| Magnesium (mg/l) | 18 | 15-20 | 18 | | |
| N-Nitrosodimethylamine (ng/l) | NA | NA | NA | ND-3.5 | |
| Perchlorate (µg/l) | NA | NA | ND | ND-4.1 | |
| pH (standard unit) | 7.6 | 7.5-7.7 | 8.2 | 8.1-8.4 2.7-4.1 42-93 109-225 1.8-3.2 | |
| Potassium (mg/l) | 4.7 | 3.7-5.6 | 3.5 | | |
| Sodium (mg/l) | 54 | 50-58 | 70 | | |
| Total Hardness (mg/l) | 260 | 220-300 | 174 | | |
| Total Organic Carbon (mg/l) | NA | NA | 2.5 | | |
| Vanadium (µg/I) | NA | NA | 2.2 | ND-3.6 | |

NA = constituent not analyzed umhos/cm = micromhos per centimeter **NTU** = nephelometric turbidity units **ND** = constituent not detected at the reporting limit < = less than **pCi/I** = picoCuries per liter SI = saturation index

FOOTNOTES

(a) Over 50 regulated and unregulated organic chemicals were analyzed. None were detected at or above the reporting limit in groundwater or surface water sources. (b) Indicates dates sampled for groundwater sources only.

(c) California Public Health Goal (PHG). Other advisory levels listed in this column are federal Maximum Contaminant Level Goals (MCLGs).

(d) Gross alpha standard also includes Radium-226 standard.

(e) MCL compliance based on 4 consecutive quarters of sampling.

(f) Running annual average used to calculate average, range, and MCL compliance.

(g) Maximum Residual Disinfectant Level (MRDL)

(h) Maximum Residual Disinfectant Level Goal (MRDLG)

(i) 90th percentile from the most recent sampling at selected customer taps.

(j) Aluminum has primary and secondary standards.

(k) The secondary MCL for manganese was exceeded in 1 well in 2005. The manganese MCL is set to protect against unpleasant affects such as color, taste, odor, and staining of laundry/plumbing fixtures. A manganese MCL exceedance does not pose a health risk.

<u>ABBREVIATIONS</u>

mg/l = milligrams per liter or parts per million (equivalent to 1 drop in 42 gallons) **μg/l** = micrograms per liter or parts per billion (equivalent to 1 drop in 42,000 gallons) ng/l = nanograms per liter or parts per trillion (equivalent to 1 drop in 42,000,000 gallons)

DEFINITIONS

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.

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.

Maximum Residual Disinfectant Level (MRDL): The level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a disinfectant added for water treatment below which there is no known or expected risk to health. MRDLGs are set by the U.S. Environmental Protection Agency.

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.

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 that a water system must follow.

Primary Drinking Water Standard (PDWS) : MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.