



**CENTRAL COAST WATER AUTHORITY  
POLONIO PASS WATER TREATMENT PLANT  
2006 CONSUMER CONFIDENCE REPORT DATA**

Please see last page for key to abbreviations.

| Parameter | Units | State MCL | PHG (MCLG) | State DLR | Range Average | TREATED    | SOURCE      |
|-----------|-------|-----------|------------|-----------|---------------|------------|-------------|
|           |       |           |            |           |               | CCWA PPWTP | STATE WATER |

**PRIMARY STANDARDS--Mandatory Health-Related Standards**

**CLARITY (a)**

|                                    |     |   |         |             |    |             |
|------------------------------------|-----|---|---------|-------------|----|-------------|
| Combined Filter Effluent Turbidity | NTU | TT=<1 NTU every 4 hours<br>TT=95% of samples <0.3 NTU | Range   | 0.03 - 0.14 | NA | Soil runoff |
|                                    |     |   | Average | 100%        | NA |             |

**MICROBIOLOGICAL (b)**

|  |    |                         |     |    |         |             |    |                                      |
|--|----|-------------------------|-----|----|---------|-------------|----|--------------------------------------|
| Total Coliform Bacteria (Distribution System)    | -- | 5.0% of monthly samples | (0) | -- | Range   | 0.0%        | NA | Naturally present in the environment |
|  |    |                         |     |    | Average | 0 Positives | NA |                                      |
|  |    |                         |     |    | Highest | 0 Positives | NA |                                      |
| Fecal Coliform and E. coli (Distribution System) | -- | --                      | (0) | -- | Range   | 0 Positives | NA | Human and animal fecal waste         |
|  |    |                         |     |    | Average | 0 Positives | NA |                                      |
|  |    |                         |     |    | Highest | 0 Positives | NA |                                      |

**ORGANIC CHEMICALS**

|   |     |    |    |     |         |          |    |  |
|---|-----|----|----|-----|---------|----------|----|--|
| Total Trihalomethanes (Distribution System) (c) | ppb | 80 | NA | 0.5 | Range   | 25 - 47  | NA | By-product of drinking water chlorination                |
|   |     |    |    |     | Average | 36       | NA |  |
| Haloacetic Acids (c) (Distribution System)      | ppb | 60 | NA | 1.0 | Range   | 5.8 - 17 | NA | By-product of drinking water chlorination                |
|   |     |    |    |     | Average | 10.2     | NA |  |
| Methyl-tert-butyl-ether (MTBE) (d)              | ppb | 5  | NA | 3   | Range   | ND       | ND | Leaking underground gasoline storage tanks and pipelines |
|   |     |    |    |     | Average | ND       | ND |  |

**INORGANIC CHEMICALS**

|   |     |            |             |     |         |           |          |  |
|---|-----|------------|-------------|-----|---------|-----------|----------|--|
| Aluminum (d)                                  | ppb | 1000       | 600         | 50  | Range   | 49 - 220  | ND - 200 | Residue from water treatment process; Erosion of natural deposits        |
|   |     |            |             |     | Average | 128       | 117      |  |
| Asbestos (e)                                  | MFL | 7          | (7)         | 0.2 | Range   | ND        | ND       | Internal corrosion of asbestos cement pipe; erosion of natural deposits  |
|   |     |            |             |     | Average | ND        | ND       |  |
| Fluoride                                      | ppm | 2          | 1           | 0.1 | Range   | 0.06      | 0.07     | Erosion of natural deposits; water additive for tooth health             |
|   |     |            |             |     | Average | 0.06      | 0.07     |  |
| Nitrate (as NO <sub>3</sub> )                 | ppm | 45         | 45          | 2   | Range   | 1.60      | 2.2      | Runoff & leaching from fertilizer use; sewage; natural erosion           |
|   |     |            |             |     | Average | 1.60      | 2.2      |  |
| Nitrate and Nitrite (as N)                    | ppm | 10         | 10          | 0.4 | Range   | 0.37      | 0.50     | Runoff & leaching from fertilizer use; sewage; natural erosion           |
|   |     |            |             |     | Average | 0.37      | 0.50     |  |
| Total chlorine residual (Distribution System) | ppm | MRDL = 4.0 | MRDLG = 4.0 | --  | Range   | .95 - 3.2 | NA       | Measurement of the disinfectant used in the production of drinking water |
|   |     |            |             |     | Average | 1.8       | NA       |  |

**RADIONUCLIDES**

|   |       |    |    |   |         |    |    |                             |
|---|-------|----|----|---|---------|----|----|-----------------------------|
| Gross Alpha Particle Activity 2003-2004 (f) | pCi/L | 15 | NA | 1 | Range   | NC | NC | Erosion of natural deposits |
|   |       |    |    |   | Average | NC | NC |                             |

**SECONDARY STANDARDS--Aesthetic Standards**

|                        |         |               |    |      |         |               |           |   |
|------------------------|---------|---------------|----|------|---------|---------------|-----------|---|
| Chloride               | ppm     | 500           | NA | --   | Range   | 21 - 125      | 19 - 125  | Runoff/leaching from natural deposits; seawater influence                               |
|                        |         |               |    |      | Average | 52            | 49        |   |
| Color (ACU)            | Units   | 15            | NA | --   | Range   | 3             | 20        | Naturally occurring organic materials   |
|                        |         |               |    |      | Average | 3             | 20        |   |
| Corrosivity            | SI      | non-corrosive | NA | --   | Range   | non-corrosive | NA        | Balance of hydrogen, carbon, & oxygen in water, affected by temperature & other factors |
|                        |         |               |    |      | Average | non-corrosive | NA        |   |
| Iron                   | ppb     | 300           | NA | 100  | Range   | ND            | 250       | Leaching from natural deposits; industrial wastes                                       |
|                        |         |               |    |      | Average | ND            | 250       |   |
| Manganese              | ppb     | 50            | NA | 20   | Range   | ND            | 17        | Leaching from natural deposits  |
|                        |         |               |    |      | Average | ND            | 17        |   |
| Odor Threshold (h)     | Units   | 3             | NA | 1    | Range   | 1-3           | 1-10      | Naturally occurring organic materials   |
|                        |         |               |    |      | Average | 1             | 4         |   |
| Specific Conductance   | µmho/cm | 1600          | NA | --   | Range   | 206 - 666     | 154 - 594 | Substances that form ions when in water; seawater influence.                            |
|                        |         |               |    |      | Average | 360           | 329       |   |
| Sulfate                | ppm     | 500           | NA | 0.5  | Range   | 39            | 38        | Runoff/leaching from natural deposits; industrial wastes                                |
|                        |         |               |    |      | Average | 39            | 38        |   |
| Total Dissolved Solids | ppm     | 1000          | NA | --   | Range   | 97 - 326      | 72 - 322  | Runoff/leaching from natural deposits; seawater influence                               |
|                        |         |               |    |      | Average | 172           | 165       |   |
| Turbidity (Monthly)    | NTU     | 5             | NA | 0.05 | Range   | 0.03 - 0.26   | 0.7 - 78  | Soil runoff   |
|                        |         |               |    |      | Average | 0.04          | 4.2       |   |

| Parameter   | Units    | State MCL | PHG (MCLG) | State DLR | Range Average | TREATED    | SOURCE      | Major Sources in Drinking Water                           |
|---|----------|-----------|------------|-----------|---------------|------------|-------------|---|
|   |          |           |            |           |               | CCWA PPWTP | STATE WATER |   |
| <b>Additional Parameters (Unregulated):</b>         |          |           |            |           |               |            |             |   |
| Alkalinity (Total) as CaCO <sub>3</sub> equivalents | ppm      | NA        | NA         | --        | Range         | 34 - 80    | 36 - 80     | Runoff/leaching from natural deposits; seawater influence |
|   |          |           |            |           | Average       | 57         | 59          |   |
| Calcium   | ppm      | NA        | NA         | --        | Range         | 24-68      | 25 - 70     | Runoff/leaching from natural deposits; seawater influence |
|   |          |           |            |           | Average       | 42         | 42          |   |
| Hardness (Total) as CaCO <sub>3</sub>               | ppm      | NA        | NA         | --        | Range         | 42 - 120   | 42 - 122    | Leaching from natural deposits                            |
|   |          |           |            |           | Average       | 76         | 76          |   |
| Heterotrophic Plate Count (g)                       | CFU/mL   | TT        | NA         | --        | Range         | <1 - 2     | NA          | Naturally present in the environment                      |
|   |          |           |            |           | Average       | 1          | NA          |   |
| Magnesium   | ppm      | NA        | NA         | --        | Range         | 9.5        | 13          | Runoff/leaching from natural deposits; seawater influence |
|   |          |           |            |           | Average       | 9.5        | 13          |   |
| pH  | pH Units | NA        | NA         | --        | Range         | 6.9 - 8.9  | 7.2 - 9.5   | Runoff/leaching from natural deposits; seawater influence |
|   |          |           |            |           | Average       | 8.2        | 8.2         |   |
| Potassium   | ppm      | NA        | NA         | --        | Range         | 2.3        | 3.1         | Runoff/leaching from natural deposits; seawater influence |
|   |          |           |            |           | Average       | 2.3        | 3.1         |   |
| Sodium  | ppm      | NA        | NA         | --        | Range         | 45         | 55          | Runoff/leaching from natural deposits; seawater influence |
|   |          |           |            |           | Average       | 45         | 55          |   |
| Total Organic Carbon (i) (TOC)                      | ppm      | TT        | NA         | 0.30      | Range         | 1.3 - 2.6  | 2.4 - 4.4   | Various natural and manmade sources.                      |
|   |          |           |            |           | Average       | 1.8        | 3.2         |   |

| <b>Constituents of Concern:</b> |     |    |          |     |         |       |          |  |
|---------------------------------|-----|----|----------|-----|---------|-------|----------|--|
| Boron 8/15/02 (j)               | ppb | NA | AL=1,000 | 100 | Range   | 0.098 | ND - 210 | Commercial fertilizers, combustion of coal and erosion of natural deposits.          |
|                                 |     |    |          |     | Average | 0.098 | 142      |  |
| Chromium VI                     | ppb | NA | NA       | 1   | Range   | ND    | ND       | Discharge from steel and pulp mills and chrome plating; erosion of natural deposits. |
|                                 |     |    |          |     | Average | ND    | ND       |  |
| Perchlorate                     | ppb | NA | AL=4     | 4   | Range   | ND    | ND       | Waste from the manufacturing of solid rocket propellant.                             |
|                                 |     |    |          |     | Average | ND    | ND       |  |
| Vanadium 8/15/02 (j)            | ppb | NA | AL=50    | 3   | Range   | 3.7   | ND - 4.8 | Waste from steel making process and erosion of natural deposits.                     |
|                                 |     |    |          |     | Average | 3.7   | 1.7      |  |

## ABBREVIATIONS AND NOTES

### Footnotes:

- Turbidity (NTU) is a measure of the cloudiness of the water and it is a good indicator of the effectiveness of our filtration system. Monthly turbidity values are listed in the Secondary Standards section.
- Total coliform MCLs: No more than 5.0% of the monthly samples may be total coliform positive. Fecal coliform/*E. coli* MCLs: The occurrence of 2 consecutive total coliform positive samples, one of which contains fecal coliform/*E. coli*, constitutes an acute MCL violation. These MCLs were not violated in 2006. Results are based on the distribution system's highest percent positives. Compliance is based on the combined samples from the distribution system and from the filtration plant.
- Compliance based on the running quarterly annual average of distribution system samples.
- Aluminum & MTBE have Secondary MCL's of 200 ppb & 5 ppb respectively.
- Asbestos sampling required every nine years for vulnerable systems. Next sample - 4/2007.
- Gross alpha particle activity monitoring required every nine years. Next sample due 2013.
- Pour plate technique -- monthly averages.
- CCWA has developed a flavor-profile analysis method that can more accurately detect odor occurrences. For more information, contact CCWA at (805-688-2292).
- TOCs are taken at the treatment plant's combined filter effluent.
- CCWA has completed the UCMR requirements. No further sampling is required until notified by DHS.

### Abbreviations

AL = Regulatory Action Level  
ACU = Apparent Color Units  
CCWA = Central Coast Water Authority  
CFU/ml = Colony Forming Units per milliliter  
DHS = Department of Health Services  
DLR = Detection Level for purposes of Reporting  
MCL = Maximum Contaminant Level  
MCLG = Maximum Contaminant Level Goal  
MFL = Million Fibers Per Liter  
MRDL = Maximum Residual Disinfectant Level  
MRDLG = Maximum Residual Disinfectant Goal  
NA = Not Applicable  
NC = Not Collected  
ND = None Detected  
NTU = Nephelometric Turbidity Units  
pCi/L = PicoCuries per liter  
PHG = Public Health Goal  
ppb = parts per billion, or micrograms per liter (µg/L)  
ppm = parts per million, or milligrams per liter (mg/L)  
PPWTP = Polonio Pass Water Treatment Plant  
SI = Saturation Index  
TOC = Total Organic Carbon  
TT = Treatment Technique  
UCMR = Unregulated Contaminant Monitoring Regulation  
µmho/cm = micromhos per centimeter  
(unit of specific conductance of water)