



2016 Pismo Beach Water System

# Consumer Confidence Report

Pismo Beach Water Division (805)773-7054 www.pismobeach.org

## **Delivering Excellence**

The City of Pismo Beach Water System met all Federal and State standards for drinking water during 2016.

#### **Your 2016 Water Quality Report**

The City of Pismo Beach is pleased to present this annual report describing the quality of your drinking water. Included are details about where your water comes from, what it contains, and how it compares to State standards. We sincerely hope this report gives you the information you seek and have a right to know.

# WATER CONSERVATION REMINDER AVOID WASTEFUL USE: www.ThinkH20now.com

#### **How Much Water Do We Use?**

In 2016, the residents and visitors of Pismo Beach used approximately 1646 acre feet or 536 million gallons of water.

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 can pick up substances resulting from the presence of animals or human activity.

# Where the Residents and Consumers of Pismo Beach get their water?

#### **Surface Water**

Lopez Lake – The City is entitled to receive 892 acre feet per year, approximately 291 million gallons of water.

#### **State Water**

The City is entitled to receive 1240 acre feet per year, approximately 456 million gallons of water.

#### Groundwater

Santa Maria Ground Water Basin – The City is entitled to extract 700 acre feet per year, approximately 228 million gallons of water.

### EN ESPANOL

Este informe contiene informacion muy importante sobre la calidad del agua que usted consume. Por favor de traducirlo, o hable con alguien que lo entiende bien.





## 2016 Pismo Beach Water System

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## Contaminants that may potentially be present in untreated source water, surface water and well water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants such as salts and metals, which can be naturally occurring or result from urban storm 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 agricultural, urban storm runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which occur naturally or from oil and gas production and mining activities.

#### **Chlorate above the drinking water Notification Level**

The County routinely monitors for the presence of chlorite and chlorate, disinfection by-products from the use of chlorine dioxide as a disinfectant in the water treatment process. Water sample results on 11/29/2016 showed chlorate levels as high as 0.86 mg/L in the water distribution system. This is above the notification level of 0.8 mg/L. Although this was not an emergency, as our customer, you have the right to know what happened and what we did to correct this situation.

#### What is a Notification Level?

The California State Water Resourced Control Board – Division of Drinking Water established health-based advisory levels, called "notification levels", as needed. Notification levels are used to provide information to public water systems and others about certain non-regulated chemicals in drinking water that lack maximum contaminate levels (MCL).

Monitoring for chemicals with notification levels is not required for Lopez Project. The County of San Luis Obispo monitors for chlorate because it is a disinfection byproduct formed resulting from the use of chlorine dioxide.

#### What should I do?

This was not an immediate risk. If it had been, you would have been notified immediately. Chlorate is considered noncancerous, but may contribute to pituitary or thyroid gland issues. This Chemical may be given a maximum contaminant level at some time in the future once more information becomes available on the possible risk to human health.

#### What happened? What was done?

Staff noticed an increase in the amount of chlorine needed to maintain adequate disinfection in the treated water. Due to low water production at the plant, we believe degradation of sodium hypochlorite in our bulk storage tank resulted in a lower solution strength and increased chlorate levels in the sodium hypochlorite solution.

The County lowered the sodium hypochlorite tank level and has been taking more frequent deliveries of chlorine to keep the solution fresh.

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### 2016 Water Quality Data for Lopez Treatment Plant / State Water Project

| Contaminants with a Primary Drinking Water Standard   |                                      |  |
|---|--------------------------------------|--|
| Table 1 - Treatment of surface water sources, combined filter Effluent Turbidity  |                                      |  |
| Turbidity Performance Standard - Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of the filtration system. Turbidity of combined filter effluent water must: | Treatment Technique for              | Treatment Technique for Central Coast Water    |
| Lopez 0.15 & CCWA 0.3, less than or equal to in 95% of measurements in a month     Not exceed 1.0 NTU for more than eight consecutive hours   | Lopez Project Alternative Filtration | Authority (State Water) Conventional Treatment |
| Lowest monthly percentage of samples that met Turbidity Performance Standard 1  | 99.9-100%                            | 100%   |
| Turbidity (NTU) measurement during the year   | 0.028-0.252                          | 0.03-0.11                                      |
| The number of violations of any surface water treatment requirement   | 0                                    | 0  |

| Table 2 - Microbiological Contaminants        |                                       |                         | Delivere               | d Water       | CCWA         | PPWTP        | Lopez     | z WTP   |  |
|---|---------------------------------------|-------------------------|------------------------|---------------|--------------|--------------|-----------|---------|--|
| Contaminant (reporting units)                 | MCL                                   | PHG(MCLG) or<br>(MRDLG) | Range                  | Average       | Range        | Average      | Range     | Average | Potential Source of Contamination  |
| Total Coliform Bacteria (MPN/100mL)           | >5.0% of monthly samples are positive | 0                       |                        | N/D           | 0-2.5%       | 0.40%        |           | N/D     | Naturally present in the environment   |
| Heterotrophic plate count (CFU/mL)            | TT = adequate disinfection < 500      |                         | ND-52                  | 4             | 0-2          | 0.4          | ND-25     | 4       | Naturally present in the environment   |
| Table 3 - Inorganic Contaminants              |                                       |                         |                        |               |              |              |           |         |  |
| Aluminum (ppm)                                | 1 (b)                                 | 0.6                     | <0.02-0.072            | 0.045         | ND-0.082     | 0.06         | ND-0.03   | 0.024   | Erosion of natural deposits; residue from some<br>surface water treatment presses                        |
| Arsenic (ppb)                                 | 10                                    | 0.004                   |                        | 1.4           | ND           | ND           | 2.2-6.0   | 4.1     | Erosion of natural deposits, runoff from orchards; glass and electronic production                       |
| Fluoride (ppm)                                | 2.0                                   | 1.0                     |                        |               | ND           | ND           |           | 0.228   | Erosion of natural deposits  |
| Barium(ppm)                                   | 2                                     | 2                       |                        |               | ND           | ND           |           | 0.033   | Discharge of oil drilling  |
| Nitrate as NO3 (ppm)                          | 45 as NO3                             | 45 as NO3               |                        | 0.52          | 0.41         | 0.41         |           | ND      | Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion natural deposits |
| Table 4 - Radioactive Contaminants            |                                       |                         |                        |               |              |              |           |         |  |
| Gross Beta Particle Activity (pCi/L)          | 15                                    | 0                       |                        |               | ND           | ND           | 1.42-1.59 | 1.51    | Decay of natural and man-made deposits   |
| Table 5 - Disinfectant Byproducts, Disinfecta | ent Residuals, and Dis                | sinfection Byprodu      | ct Precursor           | s             |              |              |           |         |  |
|   |                                       |                         | Delivered (<br>State \ |               | CCWA         | PPWTP        | Lopez     | z WTP   |  |
| Contaminant (reporting units)                 | MCL                                   | PHG(MCLG) or<br>(MRDLG) | Range                  | Average       | Range        | Average      | Range     | Average | Potential Source of Contamination  |
| Total Trihalomethanes (ppb)                   | RAA = 80                              | (WKDEG)                 | 26.8-49.3<br>(a,c)     | 49.3<br>(a,c) | 31-60        | 48           | 20.8-36.9 | 36.9    | By-product of drinking water chlorination  |
| Haloacetic Acids (ppb)                        | RAA = 60                              |                         |                        |               | 4.1-14       | 8.1          | 17.6-20.4 | 20.4    | By-product of drinking water disinfection  |
| Total Chorine Residual (ppm)                  | MRDL = 4.0 as CI2                     | 4                       | 1.81-2.92<br>(a,c)     | 2.19<br>(a,c) | 1.9-2.7      | 2.3          | 1.76-2.92 | 2.32    | Drinking water disinfectant added for treatment  |
| Chlorite (ppm)                                | 1                                     | 0.05                    | 0.21-0.633<br>(a, g)   | 0.387 (a)     |              |              | 0.462-1.0 | 0.74    | By-product of drinking water disinfection  |
| Chlorate (ppb)                                | RAL = 800                             |                         | 126-851 (a)            | 386 (a)       |              |              | 600-693   | 652     | By-product of drinking water disinfection  |
| Chlorine Dioxide (ppb)                        | MRDL = 800 as Cl02                    | 800                     | <100-293               | 2             |              |              | 20-340    | 88      | Drinking water disinfectant added for treatment  |
| Table 6 - Regulated Contaminants with Seco    | ndary MCL's                           |                         |                        |               |              |              |           |         |  |
| Chloride (ppm)                                | 500                                   |                         |                        | 76.4          | 41-138       | 97           |           | 31.7    | Runoff/leaching from natural deposits  |
| Color (CU)                                    | 15                                    |                         |                        | 1             | ND           | ND           |           | 2       | Naturally occurring organic materials  |
| Copper  | 1.0                                   |                         |                        | 0.082         |              |              |           | 0.029   | Erosion of natural deposits  |
| Corrosivity (LI)                              | Noncorrosive                          |                         |                        |               | Noncorrosive | Noncorrosive |           |         | Balance of hydrogen, carbon and oxygen in water  |
| Iron (ppb)                                    | 300                                   | NA                      | 100                    |               |              |              |           |         | Affected by temperature and other factors leaching<br>from natural deposits; industrial waste            |
| Manganese (ppb)                               | 50                                    | NA                      | 20                     |               | ND           | ND           |           |         | Leaching from natural deposits   |
| Odor - Threshold (TON)                        | 3                                     |                         | 1.0-4.5 (a)            | 1.7 (a)       | ND           | ND           | 1.0-3.5   | 2       | Naturally occurring organic materials  |
| Specific Conductance (uS/cm)                  | 1600                                  |                         |                        | 779           | 374-757      | 609          |           | 886     | Runoff/leaching from natural deposits  |
| Sulfate (mg/L)                                | 500                                   |                         |                        | 128           | 100          | 100          | 0.028-    | 143     | Runoff/leaching from natural deposits  |
| Turbidity (NTU)                               | 5 units                               |                         | NA                     | NA            | 0.03-0.13    | 0.06         | 0.252     | 0.038   | Soil Runoff  |
| Total Dissolved Solids (ppm)                  | 1000                                  |                         |                        | 510           | 194-442      | 346          |           | 590     | Runoff/leaching from natural deposits  |
| Table 7 - Contaminants with no MCL's          |                                       |                         |                        |               |              |              |           |         | In (1) (1)   |
| Alkalinity as CaCO3 (ppm)                     | NA                                    | NA                      | 140-230                | 178           | 42-84        | 66           | 279-339   | 296     | Runoff/leaching from natural deposits; seawater influence  |
| Calcium (ppm)                                 | NA                                    | NA                      |                        | 81            | 30-82        | 53           |           | 86      | Runoff/leaching from natural deposits; seawater<br>influence   |
| Hardness as CaCO3                             | NA                                    | NA                      | 230-344                | 271           | 64-162       | 115          |           | 435     | Generally found in ground and surface water  |
| Magnesium (ppm)                               | NA                                    | NA                      |                        | 33            | 17           | 17           |           | 53      | Runoff/leaching from natural deposits; seawater influence  |
| рН  | NA                                    | NA                      | 8.14-8.50              | 8.34          | 8.0-8.5      | 8.3          | 8.07-8.3  | 8.22    | Runoff/leaching from natural deposits; seawater influence  |
| Potassium (ppm)                               | NA                                    | NA                      |                        |               | 4.0          | 4.0          |           |         | Runoff/leaching from natural deposits; seawater influence  |
| Sodium (ppm)                                  | NA                                    | NA                      |                        | 73            | 87           | 87           |           | 40      | Runoff/leaching from natural deposits; seawater influence  |
| Total Organic Carbon (f) (TOC) (ppm)          | TT                                    | NA                      |                        |               | 1.5-3.5      | 2.3          |           |         | Various natural and man-made sources   |

## 2016 WATER QUALITY DATA FOR PISMO BEACH

#### Table #1 DISTRIBUTION SYSTEM WATER SAMPLING RESULTS SHOWING DETECTION OF COLIFORM BACTERIA

| Contaminants                       | Highest No. of<br>Detections | No. of Months in Violation | MCL   | MCLG | Typical Source of Contaminant        |
|------------------------------------|------------------------------|----------------------------|---|------|--------------------------------------|
| Total Coliform Bacteria            | 0                            | 0                          | More than 1 positive monthly sample   | 0    | Naturally present in the environment |
| Fecal Coliform Bacteria of E. Coli | 0                            | 0                          | A routine sample and a repeat sample are total Coliform positive, and one is also fecal Coliform or E. Coli | 0    | Human and animal fecal waste         |

#### Table #2 - 2012 HOME SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER

| Contaminants<br>(CCR UNITS) | No. of Samples | 90th Percentile Level<br>Detected | No. of Sites<br>Exceeding RAL | RAL | PHG | Typical Source of Contaminant  |
|-----------------------------|----------------|-----------------------------------|-------------------------------|-----|-----|--|
| Lead (ppb)                  | 20             | 0                                 | 0                             | 15  | 0.7 | Internal corrosion of household plumbing system; discharges from industrial manufacturers; erosion of natural deposits |
| Copper (ppm)                | 20             | 0.32                              | 0                             | 1.3 | 0.3 | Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives        |

#### Table #3 - GROUND WATER SAMPLING TEST RESULTS FOR DETECTION OF CONTAMINANTS

| PRIMARY DRINKING WATER STAND         | ARDS                 |             | WELL #5                 | WELL #23              |  |     |   |
|--------------------------------------|----------------------|-------------|-------------------------|-----------------------|--|-----|---|
| PRIMARY CONTAMINANT                  | MCL                  | MCLG<br>PHG | RANGE                   | RANGE                 | POTENTIAL CONTAMINANTION SOURCE  |     |   |
| Arsenic (ppb)                        | 10                   | 0.004       | 4                       | 3                     | Erosion of natural deposits  |     |   |
| Chromium (total) (ppb)               | 50                   | 100 ug/l    | 7                       | 5                     | Erosion of natural deposits  |     |   |
| Chromium, Hexavalent                 | 10                   | .02ug/l     | 0.5                     | 0.5                   | Erosion of natural deposits  |     |   |
| Nitrate (as NO3) (ppm)               | 45                   | 45          | 0.1                     | 1                     | Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits  |     |   |
| Fluoride (ppm)                       | 2                    | 1           | 0.10                    | 0.2                   | Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories   |     |   |
| Gross Alpha Particle Activity (pC/I) | 15                   | NA          | 5.27                    | 3.67                  | Erosion of natural deposits  |     |   |
| Uranium (pC/I)                       | 20                   | 0.43        | 2.09                    | 4.38                  | Erosion of natural deposits  |     |   |
| Nickel (ppb)                         | 100                  | 12          | 1                       | 1                     | Erosion of natural deposits; discharge from metal. Some people who drink water containing nickel in excess of the MCL over many years may experience liver and heart effects |     |   |
| PRIMARY DRINKING WATER STAND         | ARDS                 |             | WELL #5                 | WELL #23              |  |     |   |
| SECONDARY CONTAMINANT                | MCL                  |             | RANGE                   | RANGE                 | POTENTIAL CONTAMINANTION SOURCE  |     |   |
| Chloride (ppm)                       | 500                  |             | 120                     | 58                    | Runoff; leaching from natural deposits; seawater   |     |   |
| Iron (ppb)                           | 300                  |             | 250                     | 30                    | Natural or industrial  |     |   |
| Manganese (ppb)                      | 50                   |             | 40                      | 10                    | Natural or industrial  |     |   |
| Sulfate (as SO4) (ppm)               | 500                  |             | 170                     | 219                   | Runoff; leaching from natural from natural deposits; industrial  |     |   |
| Total Dissolved Solids (ppm)         | n) 1000              |             | olved Solids (ppm) 1000 |                       | 860  | 720 | Soil runoff; leaching from natural deposits |
| Zinc (ppb)                           | 5000                 |             | 60                      | 90                    | Improper waste disposal  |     |   |
| WITHOUT A DRINKING WATER STAN        | NDARDS               |             | WELL #5                 | WELL #23              |  |     |   |
| CONTAMINANT                          | MCL                  |             | RANGE                   | RANGE                 | POTENTIAL CONTAMINANTION SOURCE  |     |   |
| Total Alkalinity as CaCO3 (ppm)      | NA                   |             | 370                     | 280                   | Runoff; leaching from natural deposits; seawater   |     |   |
| Calcium (ppm)                        | NA                   |             | 128                     | 105                   | Runoff; leaching from natural deposits; seawater   |     |   |
| Sodium (ppm)                         | NA                   |             | 56                      | 63                    | Runoff; leaching from natural deposits; seawater   |     |   |
| Magnesium (ppm)                      | NA                   |             | 55                      | 46                    | Runoff; leaching from natural deposits; seawater   |     |   |
| ADDITIONAL ANALYSIS                  |                      |             |                         |                       |  |     |   |
| Aggressive Index                     | NA                   |             | 12.0                    | 11.8                  | NA   |     |   |
| Specific Conductance (micromhos)     | NA                   |             | 1350                    | 1150                  | Substances that form ions when in water; seawater influence  |     |   |
| Total Hardness (ppm) (as CaCO3)      | NA                   |             | 546                     | 451                   | Generally found in ground and surface water  |     |   |
| pH (units)                           | NA 6                 |             | 6.8-7.5                 | 6.8-7.4               | NA   |     |   |
| Turbidity (NTU)****                  | NA                   |             |                         | 0.17-2.39             | Soil runoff; leaching from natural deposits  |     |   |
|                                      | diness of the water. | The City mo | nitors this because i   | t is a good indicator | of water quality. High turbidity can hinder the effectiveness of disinfectants.  |     |   |
| DISTRIBUTION SYSTEM                  | · ·                  | MO          | MDDI                    | DANIG-                |  |     |   |
| VOLATILE ORGANIC CONTAMINANT         | 5                    | MCL         | MRDL                    | RANGE                 |  |     |   |
| Total Trihalomethanes (ppb)          |                      | 80          | NA<br>NA                | 29.8-45.3             | By-product of drinking water chlorination  |     |   |
| Total Haloacetic Acids (ppb)         |                      | 60          | NA<br>4.0               | 8.0-28.0              | By-product of drinking water chlorination  |     |   |
| Chlorine Residual                    |                      | 4.0         | 4.0                     | 0.2-4.0               | Disinfectant   |     |   |

#### Table #4 - WELL SAMPLING RESULTS SHOWING DETECTION OF UNREGULATED CHEMICALS

| UNREGULATED CHEMICALS | Avg. Level<br>Detected | Range of Detections Low-<br>High | MCL | RAL | Typical Source of Contaminants  |
|-----------------------|------------------------|----------------------------------|-----|-----|---|
| Boron (ppb)           | 250                    | ND-300                           | NS  | 100 | Naturally-occurring; element found in soil and water in the form of boric acid and sodium tetraborate |
| Vanadium (ppb)        | 4.5                    | ND-6.7                           | NS  | 50  | Naturally-occurring; has been found in association with hazardous waste sites                         |

## FOR THE WEB BROWSERS: www.pismobeach.org www.thinkh2onow.com

USEPA/CDC Provides guidelines on appropriate means to the risk of infection by Cryptosporidium and other microbial contaminants, for information call - Safe Drinking Water Hotline (1-800-426-4791).

This hotline operates from 9 a.m. to 5 p.m. EST, Monday through Friday. For more information contact:

- The Office of Ground Water and Drinking at EPA
- www.water.epa.gov/drink/index.cfm
- American Water Works Association http://www/awwa.org
- County Board of Supervisors http://slocounty.ca.gov/bos.html

## You can provide input regarding water quality decisions in your area.

- A vulnerability assessment of well #5 and #23 has been completed.
- The drinking water source assessment and protection program was completed in September 2002, both are on file at the Water Division.
- The public can address concerns to the Public Works Water Division. Contact Brandon Shea at (805) 773-7054
- The City Council meets the first and third Tuesday of each month at City Hall.
- Este informe contiene informacion muy importante sobre la calidad del agua que usted consume. Por favor de traducirlo, o hable con alguien que lo entiende bien.

#### **State and Lopez Water Footnotes:**

- (a) Distribution system samples. (b) Combined Filter Effluent turbidity monitoring is used as an indicator of filtration performance.
- (c) Compliance based on the running annual average of samples computed quarterly. (d) TOCs are taken at the treatment plant's combined filter effluent.
- (e) The MRDL for chlorine is based on a running annual average of distribution system samples. (f) Increases in odor have been associated with algae blooms. During times of increased algae blooms an odor in the algae is controlled with algaecides and the odor is reduced to acceptable levels by treating water with powder activated carbon.

| Maximum Contaminant Level (MCL)  | The highest level of contaminant that is allowed in drinking water  |
|--|---|
|  | The concentration of a contaminat that, if exceeded, triggers treatement or other requirements that a water system must follow  |
| Maximum Contaminant Leve   | The level of contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the United States Environmental   |
| Goal (MCLG and Public Health<br>Goal (PHG)   | Protection Agency and PHGs are set by the California Environmental Protection Agency  |
|  | The level of a disinfectant added for water treatment that may not be exceeded at the consumer's faucet   |
| Level (MRDL)   | ·   |
|  | 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  |
| Primary Drinking Water   | MCLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements. Primary MCLs are   |
| Standards (PDWS)   | set as close to the PHGs (or MCLGs) as is economically and technologically feasible   |
| Primary Drinking Water   | MCLs for contaminants to protect the taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect health at the MCL levels   |
| Standards (SDWS)   |   |
| Treatment Technique (TT)   | A required process intended to reduce the level of a contaminant in drinking water  |
| Regulatory Notification Level (NL)   | The concentration of a contaminant that, if exceeded, triggers treatment of other requirement which a water system must follow  |
| Running Annual Average (RAA)   | An arithmetic average of all sample is computed quarterly. The quarterly average is then averaged against the previous three quarters worth of data to provide an annual running average. The highest running average over a twelve month period used for compliance  |
| Not Collected (NC)   | A sample was not collected for this contaminant   |
| not conceted (ne)  | r sample was not concerted for this containment   |
| •  | Contaminant was not reported  |
| Not Reported (NR)  |   |
| Not Reported (NR) Not Standard (NS)  | Contaminant was not reported  |
| Not Reported (NR)  Not Standard (NS)  Not Detected (ND)  | Contaminant was not reported Contaminant for which there is no established MCL  |
| Not Reported (NR)  Not Standard (NS)  Not Detected (ND)  Not Analyzed (NA)   | Contaminant was not reported Contaminant for which there is no established MCL Contaminant is not detectable at testing limit   |
| Not Reported (NR)  Not Standard (NS)  Not Detected (ND)  Not Analyzed (NA)  WAIVED   | Contaminant was not reported Contaminant for which there is no established MCL Contaminant is not detectable at testing limit Contaminant was not analyzed  |
| Not Reported (NR) Not Standard (NS) Not Detected (ND) Not Analyzed (NA) WAIVED pCi/L   | Contaminant was not reported  Contaminant for which there is no established MCL  Contaminant is not detectable at testing limit  Contaminant was not analyzed  On September 4, 2007, the CDPH granted the TOC waiver to the Lopez WTP. The facility upgraded to Membrane Treatment  |
| Not Reported (NR) Not Standard (NS) Not Detected (ND) Not Analyzed (NA) WAIVED pCi/l ppm ppb   | Contaminant was not reported  Contaminant for which there is no established MCL  Contaminant is not detectable at testing limit  Contaminant was not analyzed  On September 4, 2007, the CDPH granted the TOC waiver to the Lopez WTP. The facility upgraded to Membrane Treatment  PICOCURIES PER LITER (A MEASURE OF RADIOACTIVITY)  PARTS PER MILLION, OR MILLIGRAMS PER LITER (MG/L)  PARTS PER BILLION, OR MICROGRAMS PER LITER (G/L)  |
| Not Reported (NR) Not Standard (NS) Not Detected (ND) Not Analyzed (NA) WAIVED pCi/L ppm ppb uS/cm   | Contaminant was not reported Contaminant for which there is no established MCL Contaminant is not detectable at testing limit Contaminant was not analyzed On September 4, 2007, the CDPH granted the TOC waiver to the Lopez WTP. The facility upgraded to Membrane Treatment PICOCURIES PER LITER (A MEASURE OF RADIOACTIVITY) PARTS PER MILLION, OR MILLIGRAMS PER LITER (MG/L) PARTS PER BILLION, OR MICROGRAMS PER LITER (G/L) MICROMHOS PER CENTIMETER (UNIT OF SPECIFIC CONDUCTANCE OF WATER)  |
| Not Reported (NR) Not Standard (NS) Not Detected (ND) Not Analyzed (NA) WAIVED pCi/L ppm ppb uS/cm   | Contaminant was not reported  Contaminant for which there is no established MCL  Contaminant is not detectable at testing limit  Contaminant was not analyzed  On September 4, 2007, the CDPH granted the TOC waiver to the Lopez WTP. The facility upgraded to Membrane Treatment  PICOCURIES PER LITER (A MEASURE OF RADIOACTIVITY)  PARTS PER MILLION, OR MILLIGRAMS PER LITER (MG/L)  PARTS PER BILLION, OR MICROGRAMS PER LITER (G/L)  MICROMHOS PER CENTIMETER (UNIT OF SPECIFIC CONDUCTANCE OF WATER)  COLOR UNITS   |
| Not Reported (NR) Not Standard (NS) Not Detected (ND) Not Analyzed (NA) WAIVED pCi/L ppm ppb uS/cm CU  | Contaminant was not reported  Contaminant for which there is no established MCL  Contaminant is not detectable at testing limit  Contaminant was not analyzed  On September 4, 2007, the CDPH granted the TOC waiver to the Lopez WTP. The facility upgraded to Membrane Treatment  PICOCURIES PER LITER (A MEASURE OF RADIOACTIVITY)  PARTS PER MILLION, OR MILLIGRAMS PER LITER (MG/L)  PARTS PER BILLION, OR MICROGRAMS PER LITER (G/L)  MICROMHOS PER CENTIMETER (UNIT OF SPECIFIC CONDUCTANCE OF WATER)  COLOR UNITS  NO STANDARD  |
| Not Reported (NR) Not Standard (NS) Not Detected (ND) Not Analyzed (NA) WAIVED pCi/L ppm ppb uS/cm CU NS                                     | Contaminant was not reported  Contaminant for which there is no established MCL  Contaminant is not detectable at testing limit  Contaminant was not analyzed  On September 4, 2007, the CDPH granted the TOC waiver to the Lopez WTP. The facility upgraded to Membrane Treatment  PICOCURIES PER LITER (A MEASURE OF RADIOACTIVITY)  PARTS PER MILLION, OR MILLIGRAMS PER LITER (MG/L)  PARTS PER BILLION, OR MICROGRAMS PER LITER (G/L)  MICROMHOS PER CENTIMETER (UNIT OF SPECIFIC CONDUCTANCE OF WATER)  COLOR UNITS  NO STANDARD  COLONY FORMING UNITS PER MILLILITER   |
| Not Reported (NR) Not Standard (NS) Not Detected (ND) Not Analyzed (NA) WAIVED pCi/L ppm ppb uS/cm CU NS                                     | Contaminant was not reported  Contaminant for which there is no established MCL  Contaminant is not detectable at testing limit  Contaminant was not analyzed  On September 4, 2007, the CDPH granted the TOC waiver to the Lopez WTP. The facility upgraded to Membrane Treatment  PICOCURIES PER LITER (A MEASURE OF RADIOACTIVITY)  PARTS PER MILLION, OR MILLIGRAMS PER LITER (MG/L)  PARTS PER BILLION, OR MICROGRAMS PER LITER (G/L)  MICROMHOS PER CENTIMETER (UNIT OF SPECIFIC CONDUCTANCE OF WATER)  COLOR UNITS  NO STANDARD  COLONY FORMING UNITS PER MILLILITER  NEPHELOMETRIC TURBIDITY UNIT   |
| Not Reported (NR) Not Standard (NS) Not Detected (ND) Not Analyzed (NA) WAIVED pCi/L ppm ppb uS/cm CU NS CFU/mi NTU                          | Contaminant was not reported  Contaminant for which there is no established MCL  Contaminant is not detectable at testing limit  Contaminant was not analyzed  On September 4, 2007, the CDPH granted the TOC waiver to the Lopez WTP. The facility upgraded to Membrane Treatment  PICOCURIES PER LITER (A MEASURE OF RADIOACTIVITY)  PARTS PER MILLION, OR MILLIGRAMS PER LITER (MG/L)  PARTS PER BILLION, OR MICROGRAMS PER LITER (G/L)  MICROMHOS PER CENTIMETER (UNIT OF SPECIFIC CONDUCTANCE OF WATER)  COLOR UNITS  NO STANDARD  COLONY FORMING UNITS PER MILLILITER  NEPHELOMETRIC TURBIDITY UNIT  THRESHOLD ODOR NUMBER  |
| Not Reported (NR) Not Standard (NS) Not Detected (ND) Not Analyzed (NA) WAIVED pCi/L ppm ppb uS/cm CU NS CFU/mi NTU                          | Contaminant was not reported  Contaminant for which there is no established MCL  Contaminant is not detectable at testing limit  Contaminant was not analyzed  On September 4, 2007, the CDPH granted the TOC waiver to the Lopez WTP. The facility upgraded to Membrane Treatment  PICOCURIES PER LITER (A MEASURE OF RADIOACTIVITY)  PARTS PER MILLION, OR MILLIGRAMS PER LITER (MG/L)  PARTS PER BILLION, OR MICROGRAMS PER LITER (G/L)  MICROMHOS PER CENTIMETER (UNIT OF SPECIFIC CONDUCTANCE OF WATER)  COLOR UNITS  NO STANDARD  COLONY FORMING UNITS PER MILLILITER  NEPHELOMETRIC TURBIDITY UNIT   |
| Not Reported (NR) Not Standard (NS) Not Detected (ND) Not Analyzed (NA) WAIVED pCi/L ppm ppb uS/cm CU NS CFU/mi NTU TON USEPA                | Contaminant was not reported  Contaminant for which there is no established MCL  Contaminant is not detectable at testing limit  Contaminant was not analyzed  On September 4, 2007, the CDPH granted the TOC waiver to the Lopez WTP. The facility upgraded to Membrane Treatment  PICOCURIES PER LITER (A MEASURE OF RADIOACTIVITY)  PARTS PER MILLION, OR MILLIGRAMS PER LITER (MG/L)  PARTS PER BILLION, OR MICROGRAMS PER LITER (G/L)  MICROMHOS PER CENTIMETER (UNIT OF SPECIFIC CONDUCTANCE OF WATER)  COLOR UNITS  NO STANDARD  COLONY FORMING UNITS PER MILLILITER  NEPHELOMETRIC TURBIDITY UNIT  THRESHOLD ODOR NUMBER  UNITED STATES ENVIORNMENTAL PROTECTION AGENCY  CENTER FOR DISEASE CONTROL HOTLINE (1-800-426-4791)  |
| Not Reported (NR) Not Standard (NS) Not Detected (ND) Not Analyzed (NA) WAIVED pCi/L ppm ppb uS/cm CU NS CFU/mi NTU TON USEPA                | Contaminant was not reported  Contaminant for which there is no established MCL  Contaminant is not detectable at testing limit  Contaminant was not analyzed  On September 4, 2007, the CDPH granted the TOC waiver to the Lopez WTP. The facility upgraded to Membrane Treatment  PICOCURIES PER LITER (A MEASURE OF RADIOACTIVITY)  PARTS PER MILLION, OR MILLIGRAMS PER LITER (MG/L)  PARTS PER BILLION, OR MICROGRAMS PER LITER (G/L)  MICROMHOS PER CENTIMETER (UNIT OF SPECIFIC CONDUCTANCE OF WATER)  COLOR UNITS  NO STANDARD  COLONY FORMING UNITS PER MILLILITER  NEPHELOMETRIC TURBIDITY UNIT  THRESHOLD ODOR NUMBER  UNITED STATES ENVIORNMENTAL PROTECTION AGENCY   |
| Not Reported (NR) Not Standard (NS) Not Detected (ND) Not Analyzed (NA) WAIVED pCi/L ppm ppb uS/cm CU NS CFU/mi NTU TON USEPA CDC Li         | Contaminant was not reported  Contaminant for which there is no established MCL  Contaminant is not detectable at testing limit  Contaminant was not analyzed  On September 4, 2007, the CDPH granted the TOC waiver to the Lopez WTP. The facility upgraded to Membrane Treatment  PICOCURIES PER LITER (A MEASURE OF RADIOACTIVITY)  PARTS PER MILLION, OR MILLIGRAMS PER LITER (MG/L)  PARTS PER BILLION, OR MICROGRAMS PER LITER (G/L)  MICROMHOS PER CENTIMETER (UNIT OF SPECIFIC CONDUCTANCE OF WATER)  COLOR UNITS  NO STANDARD  COLONY FORMING UNITS PER MILLILITER  NEPHELOMETRIC TURBIDITY UNIT  THRESHOLD ODOR NUMBER  UNITED STATES ENVIORNMENTAL PROTECTION AGENCY  CENTER FOR DISEASE CONTROL HOTLINE (1-800-426-4791)  LANGELIER INDEX; NONCORROSIVE = ANY POSITIVE VALUE, CORROSIVE = ANY NEGATIVE VALUE  LOPEZ WATER TREATMENT PLANT |
| Not Reported (NR) Not Standard (NS) Not Detected (ND) Not Analyzed (NA) WAIVED pCi/L ppm ppb uS/cm CU NS CFU/mi NTU TON USEPA CDC Li         | Contaminant was not reported  Contaminant for which there is no established MCL  Contaminant is not detectable at testing limit  Contaminant was not analyzed  On September 4, 2007, the CDPH granted the TOC waiver to the Lopez WTP. The facility upgraded to Membrane Treatment  PICOCURIES PER LITER (A MEASURE OF RADIOACTIVITY)  PARTS PER MILLION, OR MILLIGRAMS PER LITER (MG/L)  PARTS PER BILLION, OR MICROGRAMS PER LITER (G/L)  MICROMHOS PER CENTIMETER (UNIT OF SPECIFIC CONDUCTANCE OF WATER)  COLOR UNITS  NO STANDARD  COLONY FORMING UNITS PER MILLILITER  NEPHELOMETRIC TURBIDITY UNIT  THRESHOLD ODOR NUMBER  UNITED STATES ENVIORNMENTAL PROTECTION AGENCY  CENTER FOR DISEASE CONTROL HOTLINE (1-800-426-4791)  LANGELIER INDEX; NONCORROSIVE = ANY POSITIVE VALUE, CORROSIVE = ANY NEGATIVE VALUE                              |
| Not Reported (NR) Not Standard (NS) Not Detected (ND) Not Analyzed (NA) WAIVED  pCi/L ppm ppb uS/cm CU NS CFU/m NTU TON USEPA CDC L LopezWTP | Contaminant was not reported  Contaminant for which there is no established MCL  Contaminant is not detectable at testing limit  Contaminant was not analyzed  On September 4, 2007, the CDPH granted the TOC waiver to the Lopez WTP. The facility upgraded to Membrane Treatment  PICOCURIES PER LITER (A MEASURE OF RADIOACTIVITY)  PARTS PER MILLION, OR MILLIGRAMS PER LITER (MG/L)  PARTS PER BILLION, OR MICROGRAMS PER LITER (G/L)  MICROMHOS PER CENTIMETER (UNIT OF SPECIFIC CONDUCTANCE OF WATER)  COLOR UNITS  NO STANDARD  COLONY FORMING UNITS PER MILLILITER  NEPHELOMETRIC TURBIDITY UNIT  THRESHOLD ODOR NUMBER  UNITED STATES ENVIORNMENTAL PROTECTION AGENCY  CENTER FOR DISEASE CONTROL HOTLINE (1-800-426-4791)  LANGELIER INDEX; NONCORROSIVE = ANY POSITIVE VALUE, CORROSIVE = ANY NEGATIVE VALUE  LOPEZ WATER TREATMENT PLANT |

In order to ensure that tap water is safe to drink, EPA, and the California Department of Public Health, prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence does not necessarily indicate that water poses a health risk.

More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's State Drinking Water Hotline (1-800-416-4791). Some people may be more vulnerable to contaminants in drinking water then the general population. Immune-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplant, people with HIV/AIDS or other immune system deficiencies, some elderly, and infants can be particularly at risk of infections. These people should seek advice about drinking water from their health care providers.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City of Pismo beach is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead drinking water testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov//lead.