

To Our Customers:

The Oceano Community Services District (OCSD) is pleased to present this annual report describing the quality of your drinking water. This report will answer questions and describe the quality of the drinking water in Oceano.

What is the source of my drinking water?

Oceano receives its drinking water from four water production wells, all located within the District boundaries. In addition, the District purchases treated surface water from the Lopez Project and the State Water Project. Both of the surface water sources are blended together and delivered through a single pipeline to the District's water pumping plant at 19th Street near Wilmar Avenue. When the blended surface water enters the District's water system, it is a blend of approximately 29% Lopez water and 71% State Project Water.

Where is Oceano drinking water tested?

Water samples are collected weekly by OCSD operators. The water samples are collected and analyzed by Clinical Laboratory of San Bernardino, Inc., in San Bernardino and Lompoc. The lab is certified by the DHS to conduct bacteriological and chemical analyses. Federal and State requirements dictate that all regulatory analyses follow approved procedures and be performed by certified labs.

How much water does Oceano require?

Oceano used 5% less water in 2009 more than it did in 2008; the largest amount of water used in any single month in 2009 was 29 million gallons in July; the least amount of water used in any single month was 17 million gallons in February.

2009 Water Statistics

• State and Lopez Water Purchased

 \Rightarrow 220.69 Million Gallons

• Water Pumped from District Wells

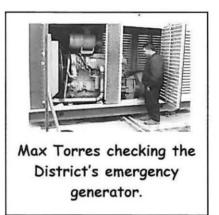
Total Oceano Water Production

⇒ 67.58 Million Gallons

 \Rightarrow 288.27 Million Gallon

Who operates the Oceano water system?

The Oceano Water Department employs four full-time water distribution operators. All operators who work for the District are required to pass written tests and be certified by the California Department of Health Services (DHS). Water treatment operators employed by OCSD are knowledgeable professionals dedicated to supplying you with dependable, high-quality drinking water.



Where can the community participate in decisions regarding water quality issues?

The Oceano Community Services District Board of Directors meets at the District Board Room on the second and fourth Wednesdays of each month. Meeting dates are published in the local newspapers, and the meeting agendas are posted in the District office at 1655 Front Street as well as our website at www.oceanocsd.org.

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

Additional General Information on Drinking Water

A ll 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 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).

S ome people may be more vulnerable to contaminants in drinking water than the general population. Immune-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, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to reduce the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

dditionally, the Office of Ground Water A and Drinking Water at EPA maintains a website with useful information on drinking water. The address is http://www.epa.gov/ OGWDW/. Additional information can be obtained by calling Philip Davis, Utility Operations Supervisor for the Oceano CSD, at 805-481-6730, or come by the District Office at 1655 Front Street, Oceano, A source water assessment was conducted for OCSD's four active wells in January, 2001. No contaminants were detected in the water supply, however the source is considered most vulnerable to the following activities: sewer collection systems, utility station maintenance areas, and automobile and historic gas stations. A completed copy of the Assessment may be viewed at the District office, 1655 Front Street, Oceano.



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TERMS USED IN THIS REPORT:

Maximum Contaminant Level Goal (MCLG) and Public Health Goal Treatment Technique (TT) - A required process intended to (PHG) - The level of a contaminant in drinking water below reduce the level of a contaminant in drinking water. which there is no known or expected risk to health. MCLGs are set by the Federal Environmental Protection Agency and PHGs Regulatory Action Level (AL) - The concentration of a contamiare set by the California Environmental Protection Agency. nant which, if exceeded, triggers a treatment or other requirement which a water system must follow. Maximum Contaminant Level (MCL) - The highest level of a con-NC: Not collected. taminant that is allowed in drinking water. Primary MCLs are NS (No Standard): Contaminant for which there is no estabset as close to the PHGs (or MCLGs) as is economically and lished MCL. technologically feasible. Secondary MCLs are set to protect ND (Not Detected): Contaminant is not detectable at testing the odor, taste, and appearance of drinking water. limit. pCi/L: picoCuries per liter (a measure of radiation) Primary Drinking Water Standards (PDWS) - MCLs for contamippm: parts per million, or milligrams per liter (mg/L) ppb: parts per billion, or micrograms per liter ($\mu q/L$) nants that affect health along with their monitoring and reporting requirements and water-treatment requirements. NTU: Nephelometric Turbidity Unit TON: Threshold Odor Number Secondary Drinking Water Standards (SDWS) - MCLs for con-LI: Langelier Index; Noncorrosive = Any positive value

taminants that affect taste, odor, or appearance of the drinking water. Contaminants with a SDWS do not affect the health at the MCL levels.

Corrosive = Any negative value

NA: (Not Analyzed) Contaminant was not analyzed

he 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, 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 water 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 storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants which can be naturally-occurring or be the result of oil and gas production and mining activities.

n order to ensure that tap water is safe to drink, the USEPA and the California Department of Health Services prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water which must provide the same protection for public health.

ables 1 through 6 list all of the drinking water contaminants that were detected from January 2009 through December 2009, unless otherwise noted. The presence of these contaminants in 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, may be more than one year old.

 Turbidity Performance Standard - Turbidity is a measure of the cloudiness of the water. It is monitored because it is a good indicator of the effectiveness of the surface water filtration system. Turbidity of filtered water must: 1. Be less than or equal to 0.5 NTU in 95% of measurements in a month. 2. Not exceed 1.0 NTU for more than eight consecutive hours. 3. Not exceed 5 NTU at any time. 	Treatment Technique for Conventional Treatment	Treatment Technique for State Water Conventional Treatment	
Lowest monthly percentage of samples that met Turbidity Performance Standard 1.	99.5%	100%	
Highest single turbidity measurement during the year.	0.15 NTU	0.12 NTU	
The number of violations of any surface water treatment requirement.	0	0	

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Table 2 – Microbiological Contaminants					Surface Water		Well Water		
Contaminant (reporting units)	MCL		PHG (MCLG)	Range	Average	Range	Average	Potential Source of Contamination	
	samples per mon in a month with collecting more month): More th	, (systems collecting less than 40 ples per month): More than 1 sample month with a detection; (systems ecting more than 40 samples per th): More than 5% of monthly ples are positive.		sample (C)		ND	ND	ND	Naturally present in the environment
Table 3 - Detection of Co Primary Drinking Water S		with a	Surt	ace Wa	ter	Well W	Vater		
Contaminant (reporting units)	MCL			e Average		Range	Average	Potential Source of Contamination	
Aluminum (ppb)	1000	600	ND - 3	40	129		ND	Erosion of natural deposits; residue from some surface water treatment processes	
Arsenic (ppb)	10	.004	ND -	2	1	ND - 2.7	1.35	Runoff fro glass & ele	m orchards; natural deposits; ctronics production wastes
Fluoride (ppb)	2000	1000	100-3	07	204	200-310	270	Erosion of natural deposits	
Gross Alpha Particle Activi (pCi/L)	ty 15	(0)	NC		NC	ND-5.6	1.89	Erosion of	natural deposits
Total Trihalomethanes (ppb	o) RAA= 80		20-6	5	42.5	6.6-42.2	21.3	By-produc [.] chlorinatio	t of drinking water n
Haloacetic Acids (ppb)	RAAs=60 ppb		7.3-14	.0 :	17.43	3.1-22.2	14.4	By-product tion.	t of drinking water chlorina-
Chlorine Residual(ppm) ***	4.0 as CL ₂	4.0	.85-3	.2	2.03	.2-2.20	1.2	Drinking w treatment	ater disinfectant added for
Nitrate as NO ³ (ppm)	45	45	ND		ND	ND-16	8	leaching fr	l leaching from fertilizer use; om septic tanks, sewage:; natural deposits
Selenium (ppb)	50	(50)	ND		ND	ND - 130 *	65	metal refir deposits; d chemical m	from petroleum, glass and neries; erosion of natural lischarge from mines and anufacturers; runoff from lots (feed additive)

* Any violation of an MCL or AL is asterisked. Additional information is provided below.

*** Distribution System Sampling Result



Nitrate in drinking water at levels above 45 ppm is a health risk for infants of less than six months of age.

High nitrate levels in drinking water can interfere with the capacity of an infant's blood to carry oxygen, resulting in serious illness; symptoms include shortness of breath and blueness of skin. High nitrate levels may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with specific enzyme deficiencies. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice trom your health care provider or choose to use bottled water for mixing formula and juice for your baby. If you are pregnant, you should drink bottled water.

While your drinking water meets the current standard for arsenic, it does contain low levels of arsenic. The standard balances the current understanding of arsenic's possible health effects against the cost of removing arsenic from drinking water. The California Department of Health Services continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and other circulatory prob-

lems.

Selenium in drinking water in excess of the MCL can cause hair or fingernail loss, numbness in fingers or toes, and/or circulation system problems. Two of Oceano's water-production wells have produced water that is above the MCL in selenium during the past year. Our operators are taking several steps to assure that the selenium content in the distribution system does not exceed the MCL. The two wells are used on a very limited basis. In addition, any well water that is above the limit in selenium is blended with other water that is low in selenium. The blended water is closely monitored and analyzed on a weekly basis. All water that is supplied to the consumers of Oceano Community Services District is below the MCL for selenium.

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Table 4 – Detection of Contaminants with a <u>Secondary</u> Drinking Water Standard		Surface Water		Well Water		
Contaminant (reporting units)	MCL	Range	Average	Range	Average	Potential Source of Contamination
Aluminum (ppb)	200	ND - 100	50		ND	Naturally present in the environment and residue from water treatment processes
Chloride (ppm)	500	31-147	89	35-42	38.5	Runoff/leaching from natural deposits; seawater influence
Color (CU)	15	ND - 3	1.5	3-10	6.5	Naturally-occurring organic materials
Corrosivity (LI)	Noncorrosive	ND	ND	.3 - 1.22	Noncorrosive 0.76	Natural or industrially-influenced balance of hydrogen, carbon and oxygen in the water; affected by temperature and other factors
Odor - Threshold	3	1-6	3.5	1-3	2	Naturally-occurring organic materials
Specific Conductance (micromhos)	1600	231-786	508.5	960-1000	980	Runoff/leaching from natural deposits; seawater influence
Sulfate (ppm)	500	63-103	83	170-190	180	Runoff/leaching from natural deposits; industrial wastes
Turbidity (NTU)	5	.04-1.4	.72	.1-3.6	1.85	Soil runoff/Presence of colloidal and/or suspended matter
Total Dissolved Solids (ppm)	1000	130-493	311.5	610-660	633.3	Runoff/leaching from natural deposits

Table 5 - Detection of Contaminants without a Drinking Water Standard	Surface Water		Well Water				
Contaminant (reporting units)	Range	Average	Range	Average	Potential Source of Contamination		
Alkalinity as CaCO3 (ppm)	52-250	151	270-370	320	Runoff/leaching from natural deposits; seawater influence		
Calcium (ppm)	30-76	53	110-130	120	Runoff/leaching from natural deposits; seawater influence		
Hardness (ppm)	60-370	215	460-530	495	Generally found in ground and surface water		
Magnesium (ppm)	17-34	25.5	49-58	53.5	Runoff/leaching from natural deposits; seawater influence		
рН	7.5-9	8.25	7.5-7.6	7.55	Runoff/leaching from natural deposits; seawater influence		
Sodium (ppm)	38-77	57.5	36-47	41.5	Runoff/leaching from natural deposits; seawater influence		
Vanadium (ppb)	ND	ND	ND-22	11	Runoff/leaching from natural deposits; seawater influence		

Table 6 - Sampling Results Sh Detection of Lead	nowing the and Copper					
Lead & Copper (to be com- pleted 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 (ppm)	20	ND	0	.0015	0	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits.
Copper (ppm)	20	0.87	1	1.3	1.3	Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives.