

# 2015 Consumer Confidence Report

Water System Name: DSH-ATASCADERO Report Date: MARCH 9, 2016

*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, 2015 and may include earlier monitoring data.*

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

Type of water source(s) in use: FOUR GROUNDWATER WELLS (WELLS 1, 2, 3, 4)

Name & general location of source(s): ATASCADERO STATE HOSPITAL WELLS ARE ON STATE PROPERTY LOCATED ON THE WEST BANK OF THE SALINAS RIVER, ASSESSORS #940000079, TOWNSHIP 28S, RANGE 12E, SECTION 25.

Drinking Water Source Assessment information: \_\_\_\_\_

The wells were assessed and are determined to be most vulnerable to the following activities not associated with any detected contaminants: surface water (Salinas River), NPDES/WDR permitted discharges, and/or animal grazing activities. For more information regarding the source assessments, please contact Jeff Densmore at the Division of Drinking Water at (805) 566-1326.

Time and place of regularly scheduled board meetings for public participation: N/A

For more information, contact: DAVID W. SHIEL Phone: (805) 468-2249

## 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.

**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).

**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 Residual Disinfectant Level (MRDL):** The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

**Maximum Residual Disinfectant Level Goal (MRDLG):** The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

**Primary Drinking Water Standards (PDWS):** MCLs and MRDLs 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.

**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.

**Variations and Exemptions:** State Board permission to exceed an MCL or not comply with a treatment technique under certain conditions.

**ND:** not detectable at testing limit

**ppm:** parts per million or milligrams per liter (mg/L)

**ppb:** parts per billion or micrograms per liter (µg/L)

**ppt:** parts per trillion or nanograms per liter (ng/L)

**ppq:** parts per quadrillion or picogram per liter (pg/L)

**pCi/L:** picocuries per liter (a measure of radiation)

**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* that 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 by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.
- *Radioactive contaminants* that 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**, the USEPA and the State Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

**Tables 1, 2, 3, 4, 5 and 7 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 State Board allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old.

Microbiological Contaminants)	Highest No. of Detections	No. of months in violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	0	0	More than 1 sample in a month with a detection	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i>	0	0	A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or <i>E. coli</i>	0	Human and animal fecal waste

Lead and Copper	Sample Date	No. of samples collected	90 <sup>th</sup> percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ppb)	9/30/2015	10	0.86	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	9/30/2015	10	0.530	0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

Chemical or Constituent (and reporting units)	Sample Date	Level Detected (average)	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	3/2/2015 - 12/26/15	29.8	28.7 – 31.0	none	none	Salt present in the water and is generally naturally occurring

Hardness (ppm)	3/2/2015 – 12/26/2015	461	402 - 510	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring
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\*Any violation of an MCL or AL is asterisked. Additional information regarding the violation is provided later in this report.

**TABLE 4 – DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected (average)	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
NITRATE (ppm) (as Nitrogen)	3/2/2015– 12/26/2015	0.89	0.78 – 0.98	10	10	RUNOFF, SEPTIC TANKS, SEWAGE, NATURAL DEPOSITS
SELENIUM (ppb)	3/12/2015	5.0	5.0	50.0	30	Discharge from petroleum, glass, and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive)
CADMIUM (ppb)	3/12/2014	1.0	1.0	5.0	0.04	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
BARIUM (ppb)	3/12/2014 - 11/18/2015	101	100 - 102	1000	2000	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits
FLUORIDE (ppm)	3/2/2015 – 12/16/2015	0.2	0.2 – 0.3	2.0	1.0	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
GROSS ALPHA (pCi/L)	8/25/2011 – 3/12/2014	4.67	3.26 – 6.49	15.0	0	Erosion of natural deposits
URANIUM (pCi/L)	8/25/2011	7.27	4.33 – 10.2	20.0	0.5	Erosion of natural deposits
TOTAL TRIHALOMETHANES (ppb)	9/23/15	28	28	80	None	BYPRODUCT OF DRINKING WATER DISINFECTION
HALOACETIC ACIDS (ppb)	9/23/2015	11	11	60	None	Byproduct of drinking water disinfection

**TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected (average)	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
CHLORIDE (ppm)	12/28/15	48.2	43.3 – 52.0	500	None	RUNOFF LEACHING FROM NATURAL DEPOSITS, SEAWATER INFLUENCE.
COLOR (units)	11/18/2015 – 12/16/2015	5.0	5.0 – 10.0	15.0	None	Naturally-occurring organic materials
SULFATE (ppm)	3/2/2015 – 12/16/2015	184.5	149 - 211	500	None	Runoff/leaching from natural deposits; industrial wastes
TURBIDITY (NTU)	11/18/2015 – 12/16/2015	0.2	0.1 – 0.3	5.0	None	Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfectants.

SPECIFIC CONDUCTANCE (µs)	3/2/2015 – 12/16/2015	956	861 - 1020	1600	None	Substances that form ions when in water; seawater influence
TOTAL DISSOLVED SOLIDS (ppm)	3/2/2015 – 12/16/2015	619	513 - 685	1000	None	RUNOFF LEACHING FROM NATURAL DEPOSITS, SEAWATER INFLUENCE.

TABLE 6 – DETECTION OF UNREGULATED CONTAMINANTS

Chemical or Constituent (and reporting units)	Sample Date	Level Detected (average)	Range of Detections	Notification Level	Health Effects Language
VANADIUM (ppb)	3/12/2014	4.5	4.0 – 5.0	50	The babies of some pregnant women who drink water containing vanadium in excess of the notification level may have an increased risk of developmental effects, based on studies in laboratory animals.

\*Any violation of an MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

### Additional General Information on Drinking Water

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 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 lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

Lead-Specific Language for Community Water Systems: 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. DSH-ATASCADERO 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. [Optional: If you do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering plants.] If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in 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>.

NO ORGANIC CONSTITUENTS WERE DETECTED. DAILY ANALYSIS FOR

CHLORINE RESIDUAL ARE PERFORMED AT ATASCADERO STATE HOSPITALS WATER SYSTEM

LABORATORY AND MONTHLY SAMPLES FOR CALIFORNIA BACTERIA TESTS ARE SENT TO THE COUNTY LAB TO COMPLY WITH STATE WATER RESOURCES CONTROL BOARD'S DIVISION OF DRINKING WATER REQUIREMENTS. ALL REQUIREMENTS WERE MET. TDS WAS OVER MCL DUE TO ONGOING DROUGHT. TDS SHOULD DROP WITH CONTINUED RAINFALL.

**Summary Information for Violation of a MCL, MRDL, AL, TT,  
or Monitoring and Reporting Requirement**

<b>VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT</b>				
<b>Violation</b>	<b>Explanation</b>	<b>Duration</b>	<b>Actions Taken to Correct the Violation</b>	<b>Health Effects Language</b>
<b>TDS</b>	<b>DUE TO DROUGHT</b>	<b>ONGOING</b>		<b>N/A</b>
<b>TOTAL COLIFORM AND E. COLI TESTING</b>	<b>SKIPPED IN 10/15 DUE TO CONTRACT MIXUP WITH SLO CTY LAB</b>	<b>1 TIME (DECEMBER 2015)</b>	<b>EXPLAINED CONTRACT TERMS TO SLO COUNTY CTY LAB</b>	<b>N/A</b>

**For Water Systems Providing Ground Water as a Source of Drinking Water**

<b>TABLE 7 – SAMPLING RESULTS SHOWING FECAL INDICATOR-POSITIVE GROUND WATER SOURCE SAMPLES</b>					
<b>Microbiological Contaminants (complete if fecal-indicator detected)</b>	<b>Total No. of Detections</b>	<b>Sample Dates</b>	<b>MCL [MRDL]</b>	<b>PHG (MCLG) [MRDLG]</b>	<b>Typical Source of Contaminant</b>
<i>E. coli</i>	0	2 PER MO. 2 PER QTR.	0	(0)	Human and animal fecal waste
Enterococci	0		TT	n/a	Human and animal fecal waste
Coliphage	0		TT	n/a	Human and animal fecal waste