County of San Diego

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TO: Valued Customer

FROM: Daniel S. Brogadir, LUEG Program Manager
Department of Public Works, Wastewater Management

2015 CONSUMER CONFIDENCE REPORT – SAN PASQUAL ACADAMY WATER SYSTEM

The County of San Diego is pleased to provide you the annual Consumer Confidence Report. Last year, as in the past, your drinking water met all California and U.S. Environmental Protection Agency health standards. This report provides a snapshot of the quality of water provided to customers of the San Pasqual Academy water system by the County of San Diego. Included are details about where your water comes from, what it contains, and how it compares to state and federal standards. The County of San Diego is committed to providing you with this timely information.

In order to ensure that tap water is safe to drink, the California State Water Resource Control Board, Division of Drinking Water, regulates contaminants in the water provided by public water systems. 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 the water poses a health risk.

Sources of drinking water (both tap and bottled) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of 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.

During the period between January 1, 2015 and December 31, 2015, the County of San Diego, through a state-certified laboratory, conducted tests for drinking water contaminants. Test results documented that the drinking water met all state and federal primary drinking water standards.

If you have any questions or require further information, please phone Jim Dohrer, Wastewater Facilities Supervisor, at (858) 204-1648 or e-mail at James.Dohrer@sdcounty.ca.gov.

DANIEL S. BROGADIR, LUEG Program Manager

cc: Jamelle McCullough (O564), Richard Crompton (O332), Terrance Rayback (O332), Kyehee Kim (O384)

2015 Consumer Confidence Report

Water System Name: **San Pasqual Academy 3700968** Report Date: June 10th, 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: Water from two wells.

Name & general location of source(s): Wells #5 and #6 (primary); and Well #2 (secondary supplemental not in use), located in the orange groves west of Highway 78 near the Academy.

Drinking Water Source Assessment information: On file with the Department of Environmental Health.

Time and place of regularly scheduled board meetings for public participation: *sdcounty.ca.gov/general/bos.html*
9:00 am – Wednesday Agenda – 1600 Pacific Highway, Room 310, San Diego, California

For more information, contact: Jim Dohrer Phone: (858) 204-1648

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.

Variances 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, and 5 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.

TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA

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

TABLE 2 – SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER

Lead and Copper	Sample Date	No. of samples collected	90th percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ppb)	2013	7	11	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	2013	7	1	0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

TABLE 3 – SAMPLING RESULTS FOR SODIUM AND HARDNESS

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	2013-2014	66	53-79	none	none	Salt present in the water and is generally naturally occurring
Hardness (ppm)	2013-2014	325	270-380	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

**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**	**Range of Detections**	**MCL [MRDL]**	**PHG (MCLG) [MRDLG]**	**Typical Source of Contaminant**
Barium (ppm)	2014	0.107	0.094-0.12	1	2	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits
Nickel (ppb)	2014	4	3.3-4.7	100	12	Erosion of natural deposits; discharge from metal factories
Selenium (ppb)	2014	4.9	4.9	50	30	Discharge from petroleum, glass, and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive)
Copper (ppm)	2014	0.0033	0.002-0.0033	(AL=1.3)	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Nitrate (NO3),(ppm)	2015	21	12-28	45	45	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Fluoride (ppm)	2014	0.20	0.20-0.21	2.0	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Uranium (pCi/L)	2014	2.7	2.7	20	0.43	Erosion of natural deposits
Total Trihalomethanes (TTHM) (ppb)	2015	11	11	80	N/A	By-product of drinking water disinfection
Total Haloacetic acids (HAA5) (ppb)	2015	5.4	5.4	6	N/A	By-product of drinking water disinfection
Lead (ppb)	2014	2.2	2.2	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits

TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD						
Chemical or Constituent (and reporting units)	**Sample Date**	**Level Detected**	**Range of Detections**	**MCL**	**PHG (MCLG)**	**Typical Source of Contaminant**
Total Dissolved Solids/TDS (ppm)	2013-2014	580	500-600	1000	N/A	Runoff/leaching from natural deposits
Chloride (ppm)	2013-2014	116	92-140	500	N/A	Runoff/leaching from natural deposits; seawater influence
Sulfate (ppm)	2013-2014	85	71-98	500	N/A	Runoff/leaching from natural deposits; industrial wastes
Specific Conductance (uMHOcm)	2013-2014	890	780-1000	1600	N/A	Substances that form ions when in water; seawater influence.
Manganese (ppb)	2013-2014	27	46-53	50	N/A	Leaching from natural deposits

Iron (ppb)	2013-2014	*600	0-1200	300	N/A	Leaching from natural deposits; industrial wastes
Turbidity (NTU)	2013-2014	4	0-8	5	N/A	Soil runoff

**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).

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. San Pasqual Academy Water System 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 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.

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

VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT				
Violation	**Explanation**	**Duration**	**Actions Taken to Correct the Violation**	**Health Effects Language**
Iron (ppb)	There is some iron present in well water at San Pasqual. Increased levels of Iron are not pleasing aesthetically but they do not pose a health risk.	Continuous	Iron deposits are removed by an Arkal micro filtration system prior to delivery to potable water distribution system.	There is no mandatory notification level for iron. There are no known health effects for iron. Secondary MCLs is set on the basis of aesthetics.