#### 2016 Consumer Confidence Report

Dairout Datas

water System Name:	KERN VALLEY STATE PRISON Report Date. JOL 1717 2017
We test the drinking wa the results of our monito	ter quality for many constituents as required by state and federal regulations. This report shows oring for the period of January 1 - December 31, 2016 and may include earlier monitoring data.
Este informe contiene entienda bien.	información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo
Type of water source(s)	in use: GROUND WATER
Name & general location	on of source(s): WELL-1 & WELL-2
	Assessment information: A source water assessment was conducted in July 2004.  may be viewed at KVSP Plant Operations Department
Time and place of regu Operations via Joseph I	larly scheduled board meetings for public participation: Meeting would be arranged thru Plant Brancato
For more information,	contact: Joseph Brancato, Chief Engineer Phone: (661) 721-6300 ext. 5899

#### 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.

Level 1 Assessment: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment: A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

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)

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

Microbiological Contaminants complete if bacteria detected)	Highest No. of Detections	No. of months in violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria (state Total Coliform Rule)	(In a mo.)	1	1 positive monthly sample	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	(In the year)	•	A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or E. colipositive		Human and animal fecal waste
E. coli (federal Revised Total Coliform Rule)	0	0	(a)	0	Human and animal fecal waste

(a) Routine and repeat samples are total coliform-positive and either is E. coli-positive or system fails to take repeat samples following E. coli-positive routine sample or system fails to analyze total coliform-positive repeat sample for E. coli.

TABLE 2	-SAMPLII	NG RESUI	LTS SHOW	ING THE D	ETECTION	ON OF LEA	AD AND COPPER
Lead and Copper (complete if lead or copper detected in the last sample set)	Sample Date	No. of samples collected	90 <sup>th</sup> percentile level detected	No. sites exceeding AL	AL	РНG	Typical Source of Contaminant
Lead (ppb)	9/23/14	20	2.17	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Соррег (рріп)	9/23/14	20	0,17	0.	1.3	0,3:	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

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Chemical or Constituent	Sample Date	- SAMPLING R Average Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
(and reporting units) Sodium (ppm)	10/4/16	73.5	71-76	none	none	Salt present in the water and is generally naturally occurring
lardness (ppm)	10/4/16	25	16-34	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring
TABLE 4 – DET	ECTION C	F CONTAMINA	NTS WITH A	<u>PRIMARY</u>	DRINKING	WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Total Trihalomethanes (ppb)	8/10/16	5.3	5,3	80	N/A	By-product of drinking water chlorination
HAA5(Total Haloacetic Acids)(ppb)	8/10/16	ND	ND	60	.N/A	By-product of drinking water chlorination
Arsenic (ppb) Finished Water	:201,6	5.5	8.9	10	N/A	Erosion of natural deposits; runoff from orchards; runoff from glass & electronics
Nitraté ( as nitrogén, N ) Finished Water	2016	4.9	3,8-5.5	10	10.	Runoff & leaching from fertilizer use Leach from septic tanks; sewage; erosion of natural deposits
Nitrite (as nitrogen, N)	2016	ND	ND	1	l l	Runoff & leaching from septic tanks, Sewage; erosion of natural deposits
Chlorine Residual (ppm )	2016	1,6	.63-2.0	4.0	4.0	Drinking water disinfectant added for treatment.
TABLE 5 – DETE	CTION O	F CONTAMINAL	NTS WITH A S	ECONDAR	Y DRINKIN	IG WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Iron	10/4/16	.67	67	300	N/A	Leaching from natural deposits; industrial wastes;
Total Dissolved Solids	10/4/16	195	[75-215]	1000	N/A	Runoff/leaching from natural deposits
Specific Conductance (µS/cm)	10/4/16	370	352-389	1600	N/A	Substances that form ions when in water, Seawater influence
Chloride	10/4/16	53	49-57	500	N/A	Runoff/leaching from natural deposits; seawater
Turbidity	8/10/16	.5	.28	5	N/A	Soil Runoff

### 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).

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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. [KERN VALLEY STATE PRISON] 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 (1-800-426-4701) or at <a href="http://www.epa.gov/lead">http://www.epa.gov/lead</a>.

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

Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
Violation of the Tutal coliform Rule,	Two or more coliform test was positive,	1 month	Retest all samples sites.  Complete a Level 1  Assessment.	Coliforms are bacteria the are naturally present if the environment and are used as indicator that other potentially-harmful bacteria may be present Coliforms were found it samples than allowed and this was a warning of potential problems.

(a) A required process intended to reduce the level of a contaminant in drinking water.

## Summary Information for Federal Revised Total Coliform Rule Level 1 and Level 2 Assessment Requirements

Level 1 or Level 2 Assessment Requirement not Due to an E. coli MCL Violation

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful,
waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water
distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When
this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these
assessments.

During the past year we were required to conduct [1] Level 1 assessment(s). [1] Level 1 assessment(s) were completed. In addition, we were required to take [0] corrective actions and we completed [0] of these actions.

The source of the positive bacteriological results was undetermined by the Level 1 assessment,	