# 2014 Consumer Confidence Report

Water System Name: **Deep Springs College**  Report Date: June 29, 2015

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, 2014.

#### 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:	Groundwater well.
Name & location of source(s):	Well 02 SE is located on the college grounds.

Drinking Water Source Assessment information: The Source Water Assessment was completed in June 2011.

The Deep Springs College water source is considered most vulnerable to the following activities associated with nitrate contaminants detected in the water supply: on-site wastewater systems, livestock grazing, agricultural operations and drainage, agricultural wells, and fertilizer use. In addition, the source is considered most vulnerable to these activities not associated with any contaminants: farm machinery repair and maintenance areas. A copy of the complete assessment is available for review at the Inyo County Environmental Health Services, 207 W. South Street, Bishop, or call (760) 873-7865.

Time and place of regularly scheduled board meetings for public participation: Not applicable.

For more information, contact: Padraic MacLeish, Water System Operator (760) 872-2000 Phone: TERMS USED IN THIS REPORT:

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 level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap.

Maximum Residual Disinfectant Level Goal (MRDLG): 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.

Maximum Contaminant Level (MCL): The highest Primary Drinking Water Standards (PDWS): MCLs or 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 which a water system must follow.

> Variances and Exemptions: Department 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 (ug/L)

**ppt**: parts per trillion or nanograms per liter (ng/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*, which 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 byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.
- *Radioactive contaminants*, which 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**, USEPA and the state Department of Public Health (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that must 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 Department 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			MCLG	Typical Source of Bacteria	
		in violation					
Total Coliform Bacteria	(In a mo.) <u>5</u>	2	More than 1 sample in a month with a detection		0	Naturally present in the environment	
Fecal Coliform or <i>E. coli</i>	(In the year) <u>0</u>	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	
TABLE	2 - SAMPLIN	G RESUL	<b>TS SHOWING</b>	THE DETE	CTION OF	LEAD AND COPPER	
Lead and Copper	No. of samples collected	90 <sup>th</sup> percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant	
Lead (ppb) 6/18/13	5	<2	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits	
Copper (ppm) 9/2/10	5	0.167	0	1.3	0.3	Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives	
	TABLE 3	SAMPLI	NG RESULTS	FOR SODIU	JM AND HA	ARDNESS	
<b>Chemical or Constituent</b> (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant	
Sodium (ppm)	5/20/00	14	n/a	none	none	Generally found in ground & surface water	
Hardness (ppm)	5/20/00	220	n/a	none	none	Generally found in ground & surface water	

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG)	Typical Source of Contaminant	
					[MRDLG]		
Arsenic (ppb)	4/16/08	2.6	n/a	10	0.004	Erosion of natural deposits	
Barium (ppm)	4/16/08	0.1	n/a	1	2	Erosion of natural deposits	
Fluoride (ppm)	4/16/08	0.31	n/a	2.0	1	Erosion of natural deposits	
Gross Alpha (pCi/L)	1/9/13	9.94	n/a	15	(0)	Erosion of natural deposits	
Nitrate as NO3 (mg/L)	6/25/14	10.5	n/a	45	45	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits	
Uranium (pCi/L)	1/9/13	6.36	n/a	20	0.43	Erosion of natural deposits	
TABLE 5 - DETE	CTION OF C	CONTAMIN	ANTS WITH	A <u>SECONI</u>	DARY DRIN	KING WATER STANDARD	
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant	
Chloride (mg/L)	5/22/00	7.5	n/a	500	n/a	Erosion of natural deposits	
Specific Conductance (micromhos)	5/22/00	440	n/a	1600	n/a	Substances that form ions when in water	
Sulfate (mg/L)	5/22/00	44	n/a	500	n/a	Erosion of natural deposits	
Total Dissolved Solids (mg/L)	5/22/00	260	n/a	1000	n/a	Erosion of natural deposits	

\*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. Immunocompromised 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).

Our water contains an average fluoride level of 0.31 mg/L. You may want to contact your child's pediatrician and/or dentist with this information to help them determine if fluoride supplements or treatments are needed.

## Summary Information for Contaminants Exceeding an MCL, MRDL, or AL, or a Violation of Any Treatment Technique 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		
Exceeded Total Coliform Maximum Contaminant Level of more than 1 sample per month positive for coliform contamination.	In October and November 2014 some of our routine and repeat bacteria water tests indicated total coliform bacteria presence but E. coli bacteria absence. Additional sampling revealed contamination in the water well and distribution system.	October and November 2014	Water well was repeatedly disinfected and chlorination equipment turned on with additional satisfactory samples collected from the disinfected water system. Well is still contaminated and will be replaced as soon as possible.	Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially- harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.		