Alpine Water Users Association July 01, 2019

## 2018 Consumer Confidence Report

*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, 2018 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.**

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| **Water Sources:**  Alpine Water Users Association is supplied by groundwater pumped from wells located throughout the Twin Peaks area. This is also supplemented and blended with treated surface water from Silverwood Lake supplied by Crestline Lake Arrowhead Water Agency (CLAWA).  **Drinking Water Source Assessment information:**  Alpine Water Users Association has completed Drinking Water Source Assessments for all of its local ground water sources. The source assessments were completed in 2002 and are available for review at the Alpine Water Users Association’s office or at the State Water Resource Control Board (SWRCB) office located at 464 West 4th Street Suite 437 San Bernardino Ca. 92401. You may request a summary of the assessment be sent to you by contacting a SWRCB District Engineer at (909) 383-4312.  **Board Meetings:**  We encourage public interest and participation in our community’s decisions affecting drinking water and any other issues. Regular Shareholder’s meetings occur bi-monthly at the AWUA office. Please call during business hours for times and dates or visit our website at [www.alpinewaterusers.com](http://www.alpinewaterusers.com). For more information, contact: Alpine Water Users Association Phone: 909-337-2845 | |
| **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)  **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 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.

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

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| Table 1 – SAMPLING RESULTS SHOWING the detection of coliform bacteria | | | | | | | | | | | | | | | | |
| **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.)  0 | | 0 | | | | 1 positive monthly sample | | | | 0 | | Naturally present in the environment | |
| Fecal Coliform or *E. coli* (state Total Coliform Rule) | | | (In the year)  0 | | 0 | | | | A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or *E. coli* positive | | | |  | | Human and animal fecal waste | |
| *E. coli*  (federal Revised Total Coliform Rule) | | | (In the year)  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 – SAMPLING RESULTS SHOWING THE detection of Lead and copper | | | | | | | | | | | | | | | | |
| Lead and Copper  (complete if lead or copper detected in the last sample set) | | | **Sample Date** | | **No. of samples collected** | **90th percentile level detected** | | | **No. sites exceeding AL** | | **AL** | | **PHG** | | **Typical Source of Contaminant** | |
| Lead (ppb) | | | September2017 | | 14 | 0.01  (ppm) | | | 0 | | 15 | | 0.2 | | Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits | |
| Copper (ppm) | | | September 2017 | | 14 | 0.71  (ppm) | | | 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) | | | May 2019 | | 14.0 | | | 10.0-20.0 | | | None | | none | | Salt present in the water and is generally naturally occurring | |
| Hardness (ppm) | | | May 2019 | | 90.6 | | | 49-120 | | | None | | none | | Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring | |
| **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** | |
| Nitrate  (ppm) | | | May  2019 | | 2.9 | | | ND-2.9 | | | 45 | | 45 | | Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits. | |
| Total Trihalomethanes  (ppb) | | | Quarterly  2018 | | 29.8  Average | | | 5.7-29.8 | | | 80 | | N/A | | By-product of drinking water disinfection. | |
| Halo Acetic Acids  (ppb) | | | Quarterly  2018 | | 4.5  Average | | | ND-5.1 | | | 60 | | N/A | | By-product of drinking water disinfection. | |
| Gross Alpha  (pCi/L) | | | 2018 | | 9.6 pCi/L  Average | | | ND-46\* | | | 15 | | None | | Erosion of natural deposits. | |
| Uranium  (pCi/L) | | | 2018 | | 9.8 pCi/L  Average | | | ND-33\* | | | 20 | | 0.43 | | 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 | |
| Turbidity (NTU) | June 2012 | | 3.6 | | | 0.3 – 1.4 | | | 5 | | N/A | | Soil runoff | |
| Total Dissolved Solids –TDS  (ppm) | May 2019 | | 152.8 | | | 74-210 | | | 1000 | | N/A0 | | Runoff / leaching from natural deposits. | |
| Sulfate (ppm) | June 2012 | | 6.2 | | | 1.7 - 11.0 | | | 500 | | N/A | | Runoff / leaching from natural deposits; industrial waste. | |
| Chloride (ppm) | May 2019 | | 21.0 | | | 5.0-33.0 | | | 500 | | N/A | | Runoff / leaching from natural deposits; seawater influence. | |
| Manganese (ppb) | May 2019 | | ND | | | ND | | | 50 | | N/A | | Runoff / leaching from natural deposits. | |
| Odor – Threshold (Units) | June 2012 | | 1.0 | | | 1.0 | | | 3 | | NA | | Naturally occurring organic materials | |
| Zinc (ppb) | May 2019 | | 28 | | | ND -140 | | | 5000 | | NA | | Runoff / leaching from natural deposits; industrial wastes | |
| Specific Conductance (µS/cm) | June 2012 | | 247.5 | | | 130 – 360 | | | 1600 | | N/A | | Substances that form ions when in water: seawater | |
| **TAble 6 – detection of UNREGULATED CONTAMINANTS** | | | | | | | | | | | | | | | | |
| **Chemical or Constituent** (and reporting units) | | | **Sample Date** | | **Level Detected** | | | **Range of Detections** | | | **Notification Level** | | | | **Health Effects Language** | |
| Boron (ppm) | | | May 2019 | | ND | | | ND | | | 1 ppm | | | | The Babies of some pregnant woman who drink water containing boron in excess of the notification level may have an increased risk of developmental effects, based on studies in laboratory animals. | |
| Vanadium (ppb) | | | June 2018 | | ND | | | ND | | | 50 ppb | | | | The Babies of some pregnant woman 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. | |

**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. Alpine Water Users Association 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 <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

Monitoring Violation: We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During the calendar year 2018, we did not monitor for 1,2,3-trichloropropane from our ground water sources during the 1st,3rd,and 4th calendar quarters and therefore, cannot be sure of the quality of your drinking water during that time.

MCL Violation: Over the course of the 2018 calendar year, Alpine Water Well No. 12 had analysis results that exceed the MCL. This well is blended in reservoir 2 and the effluent from that reservoir was below reporting limits. The RAA for all other wells were also below reporting limits.

**AWUA / CLAWA Combined Report**

This 2018 Alpine Water Users Association Consumer Confidence Report contains sample series results from each individual source and designated points throughout the distribution system. Some results within this report reflect the influence of treated surface water from Crestline-Lake Arrowhead Water Agency blended with locally produced ground water. You can obtain a complete copy of the Crestline-Lake Arrowhead Water Agency 2018 Water Quality Report by visiting their web site at [www.clawa.org](http://www.clawa.org), or contacting Crestline-Lake Arrowhead Water Agency at (909) 338-1779. If you have any questions regarding the information contained in this report, please contact Christopher Stahley, Alpine Water Users Association Chief Operator at (909) 337-2845, or visit our website at www.alpinewaterusers.com