**2021 Consumer Confidence Report**

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| Water System Name: | **Life Water Co-Op Water System** | Report Date: | **June 2022** |

*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, 2021 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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| Type of water source(s) in use:  | Groundwater from (2) wells |
|  Well #1 (Standby) and Well #2 in Inyokern, CA |
| Drinking Water Source Assessment information: | A drinking water source assessment has been completed and may be  |
| reviewed by contacting the office. The water source vulnerability is limited to septic tank proximity. |
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| Time and place of regularly scheduled board meetings for public participation:  |
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| For more information, contact:  |  Kerry Eikenskold |  Phone:  |  760-377-3151 |
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| ***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 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.**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 (ug/L)**ppt**: parts per trillion or nanograms per liter (ng/L) **ppq:** parts per quadrillion or pictogram 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 byproducts 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 U.S. EPA and the State Board prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration regulations and California law also establish limits for contaminants in bottled water that provide the same protection for public health.

**Tables 1, 1.A, 2, 3, 4, 5, 6, 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. Any violation of an AL, MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

| **Microbiological Contaminants**  | **Highest No. of Detections** | **No. of Months in Violation** | **MCL** | **MCLG** | **Typical Source of Bacteria** |
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| **Table 1. Sampling Results Showing the Detection of Coliform Bacteria** |
| *E. coli* | (In the year)0 | 0 | (a) | 0 | Human and animal fecal waste |
| (a) Routine and repeat samples are total coliform-positive and wither 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 1.A. Compliance with Total Coliform MCL between January 1, 2021 and June 30, 2021 (inclusive)** |
| **Microbiological Contaminants**  | **Highest No. of Detections** | **No. of Months in Violation** | **MCL** | **MCLG** | **Typical Source of Bacteria** |
| Total Coliform Bacteria  | (In a month)0 | 0 | 1 positive monthly sample (a) | 0 | Naturally present in the environment |
| Fecal Coliform and *E. coli*  | (In the year)0 | 0 | 0 | None | Human and animal fecal waste |
| (a) For systems collecting fewer than 40 samples per month: two or more positive monthly samples is a violation of the total coliform MCL |

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| 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** | **No. of Schools Requesting Lead Sampling** | **Typical Source of Contaminant** |
| Lead (ppb) | June 2021 | 5 | ND | 0 | 15 | 0.2 | 0 | Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits |
| Copper (ppm) | June 2021 | 5 | ND | 0 | 1.3 | 0.3 | Not applicable | Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives |

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| **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) | 2020 | 53 |  | none | none | Salt present in the water and is generally naturally occurring |
| Hardness (ppm) | 2020 | 82 |  | 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** |
| Gross Alpha (pCi/L) | 2021 | 3.59 |  | 15 | (0) | Erosion of natural deposits |
| Uranium (pCi/L) | 2012 | 3.65 | 3.5-3.8 | 20 | 0.43 | Erosion of natural deposits |
| Radium R-226 (pCi/L) | 2012 | 0.164 |  | 5 | 0.05 | Erosion of natural deposits |
| Radium R-228 (pCi/L) | 2012 | 0.459 |  | 5 | 0.019 | Erosion of natural deposits |
| Barium (ppm) | 2020 | 0.034 |  | 1 | 2 | Erosion of natural deposits |
| Arsenic (ppb) | 2020 | 2.8 |  | 10 | 0.004 | Erosion of natural deposits |
| Fluoride (ppm) | 2020 | 0.70 |  | 2 | 1 | Erosion of natural deposits |
| Nitrate as N (ppm) | 2020 | 1.5 |  | 10 | 10 | Erosion of natural deposits; leaching from fertilizer use and septic systems |
| Selenium (ppb) | 2020 | 3.8 |  | 50 | 30 | Erosion of natural deposits |

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| **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** |
| Chloride (ppm) | 2020 | 31 |  | 500 | N/A | Runoff from natural deposits |
| Color (units) | 2020 | 4.0 |  | 15 | N/A | Naturally occurring organic material |
| Specific Conductance | 2020 | 426 |  | 1600 | N/A | Substances that form ions when in water; seawater influence |
| Sulfate (ppm) | 2020 | 54 |  | 500 | N/A | Runoff/leaching from natural deposits |
| TDS (ppm) | 2020 | 260 |  | 1000 | N/A | Runoff/leaching from natural deposits |
| Turbidity (NTU units) | 2020 | 0.11 |  | 5 | N/A | Soil runoff |

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| **TAble 6 – detection of UNREGULATED CONTAMINANTS** |
| **Chemical or Constituent** | **Sample Date** | **Level Detected** | **Range of Detections** | **PHG** | **Health Effects Language** |
|  Hexavalent Chromium (ppb) | 2014 | 1.1 | 1.1 | N/A | Some people who drink water containing hexavalent chromium in excess of the MCL over many years may have an increased risk of getting cancer. |

There is currently no MCL for hexavalent chromium. The previous MCL of 0.010 mg/L was withdrawn on September 11, 2017.

**For additional information:** [**https://www.waterboards.ca.gov/drinking\_water/certlic/drinkingwater/documents/ chromium6/chrome\_6\_faqs.pdf**](https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/documents/%20%20%20%20%20%20%20chromium6/chrome_6_faqs.pdf)**.**

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

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| **TABLE 7 - VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT** |
| **Violation** | **Explanation** | **Duration** | **Actions Taken to Correct the Violation** | **Health Effects Language** |
| Monitoring and Reporting, Routine MajorPFOA | We received Order No. DW 2021-0001-DDW requiring monitoring and reporting for Perfluorooctanoic Acid, and we failed to comply. | 2021 | 1st quarterly sample was collected on 7-14-21.2nd quarterly sample was collected on 2-01-22. | Perfluorooctanoic acid exposures resulted in increased liver weight and cancer in laboratory animals. |
| Monitoring and Reporting, Routine MajorPFOS | We received Order No. DW 2021-0001-DDW requiring monitoring and reporting for Perfluorooctane Sulfonic Acid, and we failed to comply. | 2021 | 1st quarterly sample was collected on 7-14-21.2nd quarterly sample was collected on 2-01-22. | Perfluorooctanesulfonic acid exposures resulted in immune suppression and cancer in laboratory animals. |

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| **STAGE 2 detection of DISINFECTANTs/DISINFECTion BYPRODUCT RULE MONITORING** |
| **Chemical or Constituent**(and reporting units) | **Sample Date** | **Level Detected** | **Range of Detections** | **MCL** | **PHG(MCLG)** | Typical Source of Contaminant |
| Total Trihalomethanes (TTHMs) (ppb) | June2021 | ND | ND | 80 | N/A | Byproduct of drinking water disinfection |
| Haloacetic Acids (5) (HAA5) (ppb) | June2021 | ND | ND | 60 | N/A | Byproduct of drinking water disinfection |

**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:** 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. Life Water Co-Op 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 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>.

**Nitrate:** Infants below the age of six months who drink water containing nitrate in excess of the MCL may quickly become seriously ill and, if untreated, may die because high nitrate levels can interfere with the capacity of the infant’s blood to carry oxygen. Symptoms include shortness of breath and blueness of the skin. High nitrate levels may also affect the oxygen-carrying ability of the blood of pregnant women.

**Trihalomethanes:** Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience liver, kidney, or central nervous system problems, and may have an increased risk of getting cancer.

**Haloacetic Acids:** Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

Report prepared by: Skookum Water Company, Tehachapi, CA

**Consumer Confidence Report**

**Certification Form**

*(to be submitted with a copy of the CCR)*

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| Water System Name: | **LIFE WATER CO-OP WATER SYSTEM** |
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| Water System Number: | **1500579** |

The water system named above hereby certifies that its Consumer Confidence Report was distributed on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (*date*) to customers (and appropriate notices of availability have been given). Further, the system certifies that the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the Department of Public Health.

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| Certified by: | Name: |  |  |  |
|  | Signature: |  |  |  |
|  | Title: |  |  |  |
|  | Phone Number: | ( ) | Date: |  |

To summarize report delivery used and good-faith efforts taken, please complete the below by checking

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[ ]  CCR was distributed by mail or other direct delivery methods. Specify other direct delivery methods used:

[ ]  “Good faith” efforts were used to reach non-bill paying consumers. Those efforts included the following methods:

[ ]  Posting the CCR on the Internet at www.

[ ]  Mailing the CCR to postal patrons within the service area (attach zip codes used)

[ ]  Advertising the availability of the CCR in news media (attach copy of press release)

[ ]  Publication of the CCR in a local newspaper of general circulation (attach a copy of the published notice, including name of newspaper and date published)

[ ]  Posted the CCR in public places (attach a list of locations)

[ ]  Delivery of multiple copies of CCR to single bill addresses serving several persons, such as apartments, businesses, and schools

[ ]  Delivery to community organizations (attach a list of organizations)

[ ]  *For systems serving at least 100,000 persons*: Posted CCR on a publicly-accessible internet site at the following address: www.

[ ]  *For privately-owned utilities*: Delivered the CCR to the California Public Utilities Commission