## 2018 Consumer Confidence Report

Southern California Edison - Big Creek #1 Domestic Water Plant

Posted from 6-28-2019 to 7-28-2019

System # 1009111

We're pleased to present to you this year's Consumer Confidence Report. This report is designed to inform you about the quality of water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

Our water source issurface water from Huntington Lake, which is delivered via the Big Creek #1 Penstock. SCEroutinely monitors for contaminants in your drinking water according to Federal and State laws. Our testing is performed by BSK Labs of Fresno, an independent and certified laboratory.

If you have any questions about this report or concerning your water utility, please contact **Jay Kimbler at 559 893-2046.**

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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 (U.S. EPA).  **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**: Permissions from the State Water Resources Control Board (State Board) 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) |

**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, 2, 3, and 4 list some of the drinking water contaminants that were tested for during the period of** **January 1st to December 31st, 2018**. There are many other contaminants that we tested for in 2018, however they are too numerous to list and all other constituents were non-detect.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.

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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) | | 0 | | 0 | | 1 positive monthly sample | | | | | 0 | Naturally present in the environment |
| Fecal Coliform or *E. coli* (state Total Coliform Rule) | | 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) | | 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** | **No. of Schools Requesting Lead Sampling** | | **Typical Source of Contaminant** |
| Lead (ppb) | 9-13-2018 | | 10 | | 0 | | 0 | 15 | 0.2 | 0 | | Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits |
| Copper (ppm) | 9-13-2018 | | 10 | | .98 | | 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 – detection of contaminants with a Primary Drinking Water Standard** | | | | | | | |
| **Chemical or Constituent** (and reporting units) | **Sample Date** | **Level Detected** | **Range of Detections** | | **MCL** | **PHG (MCLG)** | Typical Source of Contaminant |
| Total Trihalomethanes (TTHMs) | 6/13/18 | 57 ug/l | 18-57 ug/l | | 80 ug/l | na | Trihalomethanes occur when naturally-occurring organic and inorganic materials in the water react with the disinfectants, chlorine and chloramine. |
| Haloacetic Acids (HAA5) | 6/13/18 | 48 ug/l | 18-48 ug/l | | 60 ug/l | na | Haloacetic acids occur when naturally-occurring organic and inorganic materials in the water react with the disinfectants, chlorine and chloramine. |
| **Table 4 - sampling results showing TREATMENT OF SURFACE WATER SOURCES** | | | | | | | |
| Treatment Technique (a)  (Type of approved filtration technology used) | | | | Direct Filtration | | | |
| Turbidity Performance Standards (b)  (that must be met through the water treatment process) | | | | Turbidity of the filtered water must:  1 – Be less than or equal to **.2** NTU in 95% of measurements in a month.  2 – Not exceed **1** NTU for more than eight consecutive hours.  3 – Not exceed **1** NTU at any time. | | | |
| Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1. | | | | 39.7% | | | |
| Highest single turbidity measurement during the year | | | | .692 NTU | | | |
| Number of violations of any surface water treatment requirements | | | | 1 | | | |
| (a) A required process intended to reduce the level of a contaminant in drinking water.  (b) Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements. | | | | | | | |

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| **SUMMARY INFORMATION FOR VIOLATION OF A SURFACE WATER TREATMENT TECHNIQUE** | | | | |
| **TT Violation** | **Explanation** | **Duration** | **Actions Taken to Correct the Violation** | **Health Effects Language** |
| The Water System is required to meet the 95th percentile effluent turbidity standard of 0.3 NTU each month. The 95th percentile effluent turbidity for April 2018 was 0.57 NTU. | The increase in turbidity was likely the result of high rainfall events that occurred in April. The high rainfall increased runoff and debris contribution into Huntington Lake, the source of water for the Big Creek water system | 4/6/2018-4/26/2018 | To address the increased turbidity level, SCE conducted several actions: (1) increased the frequency of back flushing the filtration system in the water plant; (2) rebuilt several flow valves in the plant that were adding air to the water system; and (3) integrated the use of a new flocculent into the operation of the plant which more effectively removed debris from the source water | Turbidity has no health effects. However, high levels of turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. |

**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 U.S. EPA’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. U.S. EPA/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: 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. SCE 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 (1-800-426-4791) or at <http://www.epa.gov/lead>.

We at Southern California Edison - Big Creek #1 Domestic Water Plant work around the clock to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children’s future. Again, should you have any questions about this report or your water utility, please contactme at **559 893-2046.**

**Jay Kimbler – Water System Supervisor**