

## 2022 Consumer Confidence Report

### Water System Information

Water System Name: Western Hills Water District

Report Date: June 14, 2023

Type of Water Source(s) in Use: Surface water from the California Aqueduct

Name and General Location of Source(s): Pump station #1 is in Patterson, California on Oak flat road approximately 35 miles south of the Harvey O Banks pumping station.

Drinking Water Source Assessment Information: Brown and Caldwell Engineering completed the DWSA in April of 2002. The source is considered most vulnerable to the following activities: Airport fueling areas, Animal feeding operations, Gas stations, Chemical processing/Storage, Dry cleaners, Historic dumps, Injection wells, Contaminant plumes, Mining, and Septic systems.

Time and Place of Regularly Scheduled Board Meetings for Public Participation: Meetings are scheduled for the Second Wednesday of every Month at the Diablo Grande Fire Station (Time Varies)

For More Information, Contact: Ashley Wilkins Office Manager @ (209) 895-9493 from 7:00 AM to 2:30 PM.

### About This 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 to December 31, 2022 and may include earlier monitoring data.

### Importance of This Report Statement in Five Non-English Languages (Spanish, Mandarin, Tagalog, Vietnamese, and Hmong)

Language in Spanish: Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Western Hills Water District (209) 895-9493 para asistirlo en español.

Language in Mandarin: 这份报告含有关于您的饮用水的重要讯息。请用以下地址和电话联系 Western Hills Water District (209) 895-9493 以获得中文的帮助: Western Hills Water District (209) 895-9493.

Language in Tagalog: Ang pag-uulat na ito ay naglalaman ng mahalagang impormasyon tungkol sa inyong inuming tubig. Mangyaring makipag-ugnayan sa o tumawag sa Western Hills Water District (209) 895-9493 para matulungan sa wikang Tagalog.

Language in Vietnamese: Báo cáo này chứa thông tin quan trọng về nước uống của bạn. Xin vui lòng liên hệ Western Hills Water District (209) 895-9493 để được hỗ trợ giúp bằng tiếng Việt.

Language in Hmong: Tsaab ntawv no muaj cov ntsiab lus tseem ceeb txog koj cov dej haus. Thov hu rau Western Hills Water District ntawm (209) 895-9493 rau ke

v pab hauv lus Askiv.

## Terms Used in This Report

| Term   | Definition  |
|--|---|
| 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 <i>E. coli</i> MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions. |
| 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).  |
| 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.  |
| 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.  |
| Regulatory Action Level (AL)                     | The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.  |
| 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.   |
| 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.  |
| 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)   |

## Sources of Drinking Water and Contaminants that May Be Present in Source Water

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.

## Regulation of Drinking Water and Bottled Water Quality

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.

## About Your Drinking Water Quality

### Drinking Water Contaminants Detected

Tables 1, 2, 3, 4, 5, 6, and 8 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.

**Table 1. Sampling Results Showing the Detection of Coliform Bacteria**

Complete if bacteria are detected.

| Microbiological Contaminants | Highest No. of Detections | No. of Months in Violation | MCL | MCLG | Typical Source of Bacteria   |
|------------------------------|---------------------------|----------------------------|-----|------|------------------------------|
| <i>E. coli</i>               | (In the year)<br>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**

Complete if lead or copper is detected in the last sample set.

| Lead and Copper | Sample Date          | No. of Samples Collected | 90 <sup>th</sup> Percentile Level Detected | No. Sites Exceeding AL | AL  | PHG | Typical Source of Contaminant   |
|-----------------|----------------------|--------------------------|--|------------------------|-----|-----|---|
| Lead (ppb)      | 07/12- 07/18<br>2022 | 20                       | ND   | 0                      | 15  | 0.2 | Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits |
| Copper (ppm)    | 07/12- 07/18<br>2022 | 20                       | ND   | 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)                                  | 5/18/2022   | 52             |                     | None | None       | Salt present in the water and is generally naturally occurring   |
| Hardness (ppm)                                | 5/18/2022   | 130            |                     | 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  |
|---|-------------|----------------|---------------------|------------|--------------------|--|
| Total Organic Carbon (TOC) (mg/L)             | 2/7/2022    | 1.24           | 1.7 – 3.9           | TT         | N/A                | Various natural and Man made sources   |
| TTHMs (ppb)                                   | 2022        | 60.3           | 7.3 - 87            | 80         | NA                 | By products of drinking water disinfection   |
| HAA5s (ppb)                                   | 2022        | 32.4           | 16 - 51             | 60         | NA                 | By products of drinking water disinfection   |
| Arsenic (ppb)                                 | 2022        | ND             | N/A                 | 10         | .0004              | Erosion of natural deposits; runoff from orchards; glass and electronics production wastes                 |
| Nitrate (ppm)                                 | 2022        | 0.2            | 0 -13               | 10 (as N)  | 10 (as N)          | Runoff and leaching from fertilizer use; leaching from septic tanks and sewage 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 | SMCL    | PHG (MCLG) | Typical Source of Contaminant                                 |
|---|-------------|----------------|---------------------|---------|------------|---|
| Total Dissolved Solids (TDS) (ppm)            | 5/24/2022   | 310            | -                   | 1000    | N/A        | Runoff / Leaching from natural deposits                       |
| Sulfate                                       | 5/19/2022   | 79             | -                   | 500     | N/A        | Runoff / Leaching from natural deposits, ( Industrial Wastes) |
| Chloride (ppm)                                | 5/19/2022   | 71             | -                   | 500     | N/A        | Runoff / Leaching from natural deposits (Seawater influence)  |
| Color (Units)                                 | 5/18/2022   | 5.0            | <5 - 10             | 15      | N/A        | Naturally occurring organic material                          |
| Odor Threshold (units)                        | 5/18/2022   | ND             | ND – 2.5            | 3       | N/A        | Naturally occurring organic material                          |
| Turbidity                                     | 5/18/2022   | .36            | ND – 14             | 5 Units | N/A        | Soil Runoff   |
| Specific Conductance (umhos / cm)             | 5/18/2022   | 530            | ND – 3500           | 1600    | N/A        | Substances that form ions when in water; Seawater influence   |

**Table 6. Detection of Unregulated Contaminants**

| Chemical or Constituent (and reporting units) | Sample Date | Level Detected | Range of Detections | Notification Level | Health Effects   |
|---|-------------|----------------|---------------------|--------------------|--|
| Manganese                                     | 5/18/2022   | ND             | -                   | 500                | Manganese exposures resulted in neurological effects. High levels of manganese in people have shown to result in adverse effects to the nervous system |
|   |             |                |                     |                    |  |
|   |             |                |                     |                    |  |

**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. [Enter Water System's Name] 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 (1-800-426-4791) or at <http://www.epa.gov/lead>.

**Additional Special Language for Nitrate, Arsenic, Lead, Radon, and *Cryptosporidium*:** [Enter Additional Information Described in Instructions for SWS CCR Document]

**State Revised Total Coliform Rule (RTCR):** [Enter Additional Information Described in Instructions for SWS CCR Document]

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

**Table 7. Violation of a MCL, MRDL, AL, TT or Monitoring Reporting Requirement**

| Violation | Explanation | Duration | Actions Taken to Correct Violation | Health Effects Language |
|-----------|-------------|----------|------------------------------------|-------------------------|
| None      |             |          |                                    |                         |
|           |             |          |                                    |                         |

**For Water Systems Providing Groundwater as a Source of Drinking Water**

**Table 8. Sampling Results Showing Fecal Indicator-Positive Groundwater Source Samples**

| Microbiological Contaminants (complete if fecal-indicator detected) | Total No. of Detections | Sample Dates | MCL [MRDL] | PHG (MCLG) [MRDLG] | Typical Source of Contaminant |
|---|-------------------------|--------------|------------|--------------------|-------------------------------|
| <i>E. coli</i>  | 0                       | 2022         | 0          | (0)                | Human and animal fecal waste  |
| Enterococci   | 0                       | 2022         | TT         | N/A                | Human and animal fecal waste  |
| Coliphage   | 0                       | 2022         | TT         | N/A                | Human and animal fecal waste  |

**Summary Information for Fecal Indicator-Positive Groundwater Source Samples, Uncorrected Significant Deficiencies, or Violation of a Groundwater TT**

**Special Notice of Fecal Indicator-Positive Groundwater Source Sample: N/A**

**Special Notice for Uncorrected Significant Deficiencies: N/A**

**Table 9. Violation of Groundwater TT**

| Violation | Explanation | Duration | Actions Taken to Correct Violation | Health Effects Language |
|-----------|-------------|----------|------------------------------------|-------------------------|
| None      |             |          |                                    |                         |
|           |             |          |                                    |                         |

**For Systems Providing Surface Water as a Source of Drinking Water**

**Table 10. Sampling Results Showing Treatment of Surface Water Sources**

|   |  |
|---|--|
| Treatment Technique <sup>(a)</sup> (Type of approved filtration technology used)                      | Two Antifloc filters operated in parallel mode   |
| Turbidity Performance Standards <sup>(b)</sup> (that must be met through the water treatment process) | Turbidity of the filtered water must:<br>1 – Be less than or equal to .280 NTU in 95% of measurements in a month.<br>2 – Not exceed .280 NTU for more than eight consecutive hours.<br>3 – Not exceed 1.0 NTU at any time. |
| Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.                   | 100%   |
| Highest single turbidity measurement during the year  | .122   |
| 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.

**Summary Information for Violation of a Surface Water TT**

**Table 11. Violation of Surface Water TT**

| Violation | Explanation | Duration | Actions Taken to Correct Violation | Health Effects Language |
|-----------|-------------|----------|------------------------------------|-------------------------|
| None      |             |          |                                    |                         |
|           |             |          |                                    |                         |

| Other Violations   | Explanation   | Duration | Actions Taken to Correct Violation                       |
|--|---|----------|--|
| Failure to implement a cross-connection control program (CHSC, Section 116555 and CCR, Title 17, Section 7584) | Water System failed to conduct surveys to identify water user premises where cross-connections are likely to occur. | 2022     | A cross-connection survey was conducted in January 2023. |