



2025 Consumer Confidence Report

Thermalito Water and Sewer District

410 Grand Ave
Oroville, CA 95965
(530) 533-0740

Dated April 15, 2026

2025 Consumer Confidence Report

Water System Name: Thermalito Water & Sewer District Report Date: April 15, 2026

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, 2023 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Thermalito Water & Sewer District a 410 Grand Avenue, Oroville, CA 95965 para asistirlo en español.

Tsab ntawv no muaj cov ntsiab lus tseem ceeb hais txog koj cov dej haus. Thov hu rau Thermalito Water & Sewer District ntawm 410 Grand Avenue, Oroville, CA 95965 yog koj xav tau kev pab hais lus Hmoob.

Type of water source(s) in use: Surface Water & Groundwater (6 Total Sources)

Name & general location of source(s): Surface water from the Powers Canal (1), Well #2 Biggs Ave (2), Well #3 12th St. (3), Well #4 Table Mt. Blvd. (4), Well #5 at the Treatment Plant (5) and lastly TWSD has an interconnection with California Water Service of Oroville (6). The interconnection is for emergency uses only.

Drinking Water Source Assessment information: A Drinking Water Source Assessment was completed on February 19, 2003. Listed below is a summary of the vulnerability findings of the assessment:

Groundwater Wells:

Sewer Collection Systems (Wells #1,2 and 3)
Crops, Golf Courses, Water Supply Wells (Well #4)
Drinking Water Treatment Plants, Water Supply Wells (Well #5)

Surface Water:

Airports, concentrated aquatic animal production, historic gas stations, septic systems and wastewater treatment plants

A copy of the complete assessment may be viewed at:

Division of Drinking Water
Valley District Office
364 Knollcrest Drive, Suite 101, Redding, CA 96002
Office 530-224-4800

or

Thermalito Water and Sewer District
410 Grand Avenue
Oroville, CA 95965
Attn: Christopher Heindell, 530-533-0740

Time and place of regularly scheduled board meetings for public participation: Third Tuesday of every month at 2:00 pm. The public is welcome to attend.

For more information, contact: Christopher Heindell

Phone: (530) 533-0740

Water Treatment System Description (Micro Membrane Filtration)

April 1st 2008, TWSD introduced the operation of a Micro Membrane water filtration system where by the District filters surface water without the addition of chemical additives. The raw water is pumped against a membrane facility that has a pore size (membrane openings) small enough to screen particles smaller than bacteria and viruses. This is very similar to the way bottled water is processed, but at a much greater volume. The pore sizes utilized by the Micro Membrane filtration process achieves a total of 4-log removal and inactivation credit through filtration and the use of disinfection for viruses. The State requires that a residual disinfectant be injected into the filtered water and allowed enough contact time to be able to provide adequate residual disinfection throughout the distribution system. TWSD injects sodium hypochlorite (chlorination) into the finished water stream to meet the disinfectant requirement. The sodium hypochlorite is created onsite and is chemically equivalent to 0.8% bleach. If you, your family or class at school would like to take a tour of the facility, please contact the District office to make an appointment.

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.

Variations and Exemptions: State Board 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 ($\mu\text{g/L}$)

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 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, 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 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.

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 | More than 1 sample in a month with a detection | 0 | Naturally present in the environment |
| Fecal Coliform or <i>E. coli</i> (State Total Coliform Rule) | 0 | | | 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 – 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 | Number of Schools Requesting Sampling | No. of samples collected | Range | 90 th percentile level detected | No. sites exceeding AL | MCL (AL) | PHG | Typical Source of Contaminant |
|--|-------------|---------------------------------------|--------------------------|--------|--|------------------------|----------|-----|---|
| Lead (ppb) | 2025 | 0 | 31 | ND-7 | 0.0 | None | 15 | 0.2 | Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits |
| Copper (ppb) | 2025 | 0 | 31 | ND-213 | 0.0 | None | 1300 | 300 | Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives |

TABLE 3 – DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD

| Chemical or Constituent (and reporting units) | Source | Sample Date | Level Detected | Range of Detections | MCL [MRDL] | PHG (MCLG) [MRDLG] | Typical Source of Contaminant |
|---|----------------------------|--------------|----------------------|---------------------|------------|--------------------|--|
| Aluminum (ppm) | Treatment Plant Well #2-5 | 2024 2024 | < 0.05 <0.05 | < 0.05 <0.05 | 1 | 0.6 | Erosion of natural deposits; residue from some surface water treatment processes |
| Antimony (ppb) | Treatment Plant Well #2-5 | 2024 2024 | < 6.0 <6.0 | < 6.0 <6.0 | 6 | 6 | Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder |
| Arsenic (ppb) | Treatment Plant Wells #2-5 | 2024 2024 | < 2.0 2.5 Average | <2.0 <2.0-4.0 | 10 | 0.004 | Erosion of natural deposits; runoff from orchards; glass and electronics production wastes |
| Barium (ppb) | Treatment Plant Wells #2-5 | 2024 2024 | <0.1 <0.1 | <0.1 | 1 | 2 | Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits |
| Beryllium (ppb) | Treatment Plant Wells #2-5 | 2024 2024 | <1.0 <1.0 | <1.0 <1.0 | 4 | 1 | Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits |
| Cadmium (ppb) | Treatment Plant Wells #2-5 | 2024 2024 | <0.01 <0.01 | <0.01 <0.01 | 5 | 0.04 | Some people who drink water containing cadmium in excess of the MCL over many years may experience kidney damage. |
| Chromium (Hexavalent) (ppb) | Treatment Plant Wells #2-5 | 2025 2025 | <0.01 < 0.01 | <0.01 <0.01 | 10 | 0.02 | Erosion of natural deposits; transformation of naturally occurring trivalent chromium to hexavalent chromium by natural processes and human activities such as discharges from |

| | | | | | | | |
|------------------------|----------------------------|--------------|----------------------|-------------------|---------------|--------------|--|
| | | | | | | | electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, |
| Chromium (Total) (ppb) | Treatment Plant Wells #2-5 | 2024 2024 | <10 < 10 | <10.0 <10.0 | 50 | 100 | Erosion of natural deposits; transformation of naturally occurring trivalent chromium to hexavalent chromium by natural processes and human activities such as discharges from electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, |
| Fluoride (ppm) | Treatment Plant Wells #2-5 | 2024 2024 | <0.1 0.28 Average | < 0.1 <0.1-0.4 | 2.0 | 1 | Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories |
| Manganese (ppb) | Treatment Plant Wells #2-5 | 2024 2024 | <10 5 Average | <10 <10-20 | 50 | N/A | Leaching from natural deposits |
| Mercury (ppb) | Treatment Plant Wells #2-5 | 2024 2024 | <1 <1 | <1.0 <1.0 | 2 | 1.2 | Erosion of natural deposits; discharge from refineries and factories; runoff from landfills and cropland |
| Nickel (ppb) | Treatment Plant Wells #2-5 | 2024 2024 | <10 <10 | <10.0 <10.0 | 100 | 12 | Erosion of natural deposits; discharge from metal factories |
| Nitrate as N (ppm) | Treatment Plant Wells #2-5 | 2025 2025 | <0.4 1.1 Average | <0.4 <0.4-2.9 | 10 (as N) | 10 (as N) | Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits |
| Nitrite as N (ppm) | Treatment Plant Wells #2-5 | 2024 2024 | < 0.4 0.4 Average | < 0.4 <0.4 | 1.0 (as N) | 1.0 (as N) | Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits |
| Perchlorate (ppb) | Treatment Plant Wells #2-5 | 2025 2024 | < 2.0 <2.0 | < 2.0 <2.0 | 6 | 1 | Perchlorate is an inorganic chemical used in solid rocket propellant, fireworks, explosives, flares, matches, and a variety of industries. It usually gets into drinking water as a result of environmental contamination from historic aerospace or other industrial operations that used or use, store, or dispose of perchlorate and its salts. |
| Selenium (ppb) | Treatment Plant Wells #2-5 | 2024 2024 | <5.0 <5.0 | <5.0 <5.0 | 50 | 30 | Discharge from petroleum, glass, and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive) |
| Sodium (ppm) | Treatment Plant Wells #2-5 | 2024 2015 | 8.0 19.0 Average | 8.0 11.0-29.0 | None | None | Salt present in the water and is generally naturally occurring |
| Thallium (ppb) | Treatment Plant Wells #2-5 | 2024 2024 | <1.0 <1.0 | <1.0 <1.0 | 2 | 0.1 | Leaching from ore-processing sites; discharge from electronics, glass, and drug factories |

TABLE 3 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD

| Chemical or Constituent (and reporting units) | Source | Sample Date | Level Detected | Range of Detections | MCL [MRDL] | Typical Source of Contaminant |
|---|----------------------------|--------------|----------------------|----------------------|------------|---|
| Aluminum (ppm) | Treatment Plant Well #2-5 | 2024 2024 | < 0.05 <0.05 | < 0.05 <0.05 | 0.2 | Erosion of natural deposits; residue from some surface water treatment processes |
| Color | Treatment Plant Well #2-5 | 2024 2024 | < 5.0 <5.0 | < 5.0 <5.0 | 15 | Naturally-occurring organic materials |
| Copper (ppm) | Treatment Plant Well #2-5 | 2024 2024 | < 0.05 <0.05 | < 0.05 <0.05 | 1 | Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives |
| Foaming Agents (MBAS) (ppm) | Treatment Plant Well #2-5 | 2024 2024 | < 0.05 <0.05-0.36 | < 0.05 <0.05-0.36 | 0.05 | Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives |
| | | | | | | |
| Iron (ppb) | Treatment Plant Wells #2-5 | 2024 2024 | <30 7.5 Average | <30 <30-30 | 300 | Leaching from natural deposits; industrial wastes |
| Manganese (ppb) | Treatment Plant Wells #2-5 | 2024 2024 | <10 5.0 Average | <10 <10-20 | 50 | Leaching from natural deposits |

| | | | | | | |
|------------------------------|----------------------------|------|---------------|-------------|------|---|
| Odor (Units) | Treatment Plant Wells #2-5 | 2024 | <1 | <1 | 3 | Naturally-occurring organic materials |
| Silver (Units) | Treatment Plant Wells #2-5 | 2024 | 0.25 Average | <1-2 | 100 | Industrial discharges |
| Turbidity (Units) | Wells #2-5 | 2024 | <1 | <1 | 5 | Soil runoff |
| Zinc (ppm) | Treatment Plant Wells #2-5 | 2024 | 0.20 Average | 0.1-0.5 | 5 | Industrial discharges |
| Total Dissolved Solids (ppm) | Treatment Plant Wells #2-5 | 2024 | <0.02 | <0.02 | 1000 | Runoff/leaching from natural deposits |
| Specific Conductance(µS/cm) | Treatment Plant Wells #2-5 | 2024 | <0.02 | <0.02 | 1600 | Substances that form ions when in water; seawater influence |
| Sulfate (ppm) | Treatment Plant Wells #2-5 | 2024 | 80 | 80 | 500 | Runoff/leaching from natural deposits; industrial wastes |
| | | 2015 | 190.0 Average | 150.0-220.0 | | |
| | | 2024 | 113.0 | 113.0 | | |
| | | 2024 | 261.0 Average | 161.0-339.0 | | |
| | | 2015 | 2.9 | 2.9 | | |
| | | 2015 | 12.6 Average | 4.6-23.4 | | |

TABLE 4 – DETECTION OF DISINFECTION BYPRODUCTS, DISINFECTANT RESIDUALS AND DISINFECTION BYPRODUCT PRECURSORS

| Chemical or Constituent (and reporting units) | Source | Sample Date | Level Detected | Range of Detections | MCL | PHG (MCLG) | Typical Source of Contaminant |
|---|---|--|--|--|-----|------------|---|
| TTHMs [Total Trihalomethanes] (ppb) | 57 Titanio Ct. 58 Hawes Way 12 th & Plumas 1123 Sierra Ave. | 1/2/25 4/15/25 7/15/25 10/14/25 | 34.8 Average 36.5 Average 24.3 Average 27.8 Average | 6.0-68.0 9.0-60.0 0.0-36.0 0.0-44.0 | 80 | None | Byproducts of drinking water disinfection |
| Haloacetic Acids (ppb) | 57 Titanio Ct. 58 Hawes Way 12 th & Plumas 1123 Sierra Ave. | 1/2/25 4/15/25 7/15/25 10/14/25 | 46.5 Average 48.3 Average 29.0 Average 37.3 Average | 6.0-77.0* 7.0-73.0* 0.0-37.0 0.0-61.0* | 60 | None | Byproducts of drinking water disinfection |
| Chlorine (ppm) | Treatment Plant | 1 st Qtr. 2 nd Qtr. 3 rd Qtr. 4 th Qtr. | 0.86 Average 0.89 Average 0.85 Average 0.73 Average | 0.71-1.05 0.82-0.96 0.80-0.90 0.67-0.77 | 4.0 | 4.0 | Drinking water disinfectant added for treatment |
| Chloroform | Treatment Plant Wells #2-5 | 2025 2025 | ND <1-2.8 | ND ND-2.8 | 70 | None | Byproducts of drinking water disinfection |

TABLE 5 – RADIOACTIVE CONTAMINANTS

| Chemical or Constituent (and reporting units) | Source | Sample Date | Level Detected | Range of Detections | MCL | PHG (MCLG) | Typical Source of Contaminant |
|---|----------------------------|--------------|----------------|---------------------|-----|------------|-------------------------------|
| Gross Alpha Particle Activity (pCi/L) | Treatment Plant Wells #2-5 | 2025 2025 | 1.15 ND | 1.15 ND | 15 | 0 | Erosion of natural deposits |
| Radium 228 (pCi/L) | Treatment Plant Wells #2-5 | 2025 2025 | ND ND-0.07 | ND ND-0.07 | 5 | N/A | Erosion of natural deposits |

TABLE 6 – FEDERAL UCMR 5

| Chemical or Constituent (and reporting units) | Source | Sample Date | Level Detected | Range of Detection s | Minimum Reporting Level | Notification Level | Response Level | Public Health Goal |
|---|---------|-------------|----------------|----------------------|-------------------------|--------------------|----------------|--------------------|
| Perfluorobutane Sulfonic Acid (PFBS) ppb | Well #2 | 2025 | 1.9 | 1.15 | 2.0 | 500 | 5,000 | N/A |
| | Well #3 | 2025 | ND | ND | | | | |
| Perfluorooctane Sulfonic Acid (PFOS) ppb | Well #2 | 2025 | 2.9 | ND | 2.0 | 4.0 | 40 | 1 |
| | Well #3 | 2025 | 2.1 | ND-0.07 | | | | |
| Perfluorooctanoic Acid (PFOA) ppb | Well #2 | 2025 | 2.3 | 2.3 | 2.0 | 4.0 | 10 | 0.007 |
| | Well #3 | 2025 | ND | ND | | | | |

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

For Systems Providing Surface Water as a Source of Drinking Water

TABLE 7 - SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES

| | |
|--|---|
| Treatment Technique ^(a) (Type of approved filtration technology used) | Microfiltration |
| 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 <u>0.1</u> NTU in 95% of measurements in a month. 2 – Not exceed <u>1.0</u> NTU anytime based on 15-minute monitoring intervals 3 – Not exceed <u>50</u> NTU at any time. |
| Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1. | 95.0% |
| Highest single turbidity measurement during the year | 0.30 NTU |
| Number of violations of any surface water treatment requirements | None |

(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.

* Any violation of a TT is marked with an asterisk. Additional information regarding the violation is provided below.

Disinfection By-product Exceedance

During 2025 there were three samples which exceeded the one-time Haloacetic Acid MCL of 60 parts per billion. The one-time exceedance did not cause the average values to exceed the Operational Evaluation Level. This serves as a notification of the levels, but no corrective action was necessary.

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. Thermalito Water and Sewer District 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 or at <http://www.epa.gov/safewater/lead>.