

## 2023 Consumer Confidence Report

### Water System Information

Water System Name: Riverdale Park Tract

Report Date: 5/23/2024

Type of Water Source(s) in Use: Groundwater Well

Name and General Location of Source(s): Well #3 (West Well) at 2617 Riverdale Ave, Modesto CA 7

Drinking Water Source Assessment Information:

Time and Place of Regularly Scheduled Board Meetings for Public Participation: 1<sup>st</sup> Thursday 5:00PM  
Monthly – VFW Hall Hatch Road

For More Information, Contact: Sam Hedge (209) 406-6069

### 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, 2023 and may include earlier monitoring data.

### 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 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 disinfectant is allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Term	Definition
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 are 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**

Microbiological Contaminants	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
<i>E. coli</i>	0	0	0	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	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)	7/9/21	5	0	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	7/9/21	5	0.16	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)	11/1/23	31	N/A	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	11/1/23	171	N/A	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**

<b>Chemical or Constituent (and reporting units)</b>	<b>Sample Date</b>	<b>Level Detected</b>	<b>Range of Detection s</b>	<b>MCL [MRDL]</b>	<b>PHG (MCLG) [MRDLG]</b>	<b>Typical Source of Contaminant</b>
Arsenic (ug/L)	11/1/23	7.2	N/A	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronic production wastes.
Barium (mg/L))	11/1/23	ND	N/A	1	2	Discharges of oil drilling wastes and from meta refineries; erosion of natural deposits.
Fluoride (mg/L)	11/1/23	0.13	N/A	2	1	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories.
Nitrate as Nitrogen (mg/L)	2/1/23 5/1/23 8/8/23 11/1/23	8.75	5.3-9.9	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits.
Gross Alpha (pCi/L)	2/1/23 5/1/23 7/11/23 10/3/23	11.83	8.72-14.1	15	0	Erosion of natural deposits.
Uranium (pCi/L)	2/1/23 5/1/23 7/11/23	12.76	9.3-15	20	0.4	Erosion of natural deposits.
Perchlorate (ug/L)	9/11/23 11/1/23	0.29	ND-0.58	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.
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**Table 5. Detection of Contaminants with a Secondary Drinking Water Standard**

<b>Chemical or Constituent (and reporting units)</b>	<b>Sample Date</b>	<b>Level Detected</b>	<b>Range of Detections</b>	<b>SMCL</b>	<b>PHG (MCLG)</b>	<b>Typical Source of Contaminant</b>
Chloride (mg/L)	11/1/23	24	N/A	500	N/A	Runoff/leaching from natural deposits; seawater influence.
Specific Conductance (uS/cm)	11/1/23	520	N/A	1600	N/A	Substances that form ions when in water; seawater influence.
Sulfate (mg/L)	11/1/23	20	N/A	500	N/A	Runoff/leaching from natural deposits industrial wastes.
Total Dissolved Solids (mg/L)	11/1/23	360	N/A	1000	N/A	Runoff/leaching from natural deposits.

**Table 6. Detection of Unregulated Contaminants**

<b>Chemical or Constituent (and reporting units)</b>	<b>Sample Date</b>	<b>Level Detected</b>	<b>Range of Detections</b>	<b>Notifica tion Level</b>	<b>Health Effects</b>
Vanadium (ug/L)	11/1/23	36	N/A	50	Vanadium exposures resulted in developmental and reproductive effects in rats.
Perfluorohexanoic Acid (PFHXA) (ng/L)	1/3/23 5/22/23 7/11/23 10/3/23	2.98	ND-5.2	N/A	N/A
Perfluorohexane Sulfonic Acid (PFHXS) (ng/L)	1/3/23 5/22/23 7/11/23 10/3/23	3.35	ND-5.2	N/A	N/A
Perfluorobutanesulfonic Acid (PFBS) (ng/L)	1/3/23 5/22/23 7/11/23 10/3/23	3.77	ND-7	N/A	N/A
Perfluorooctanoic Acid (PFOA) (ng/L)	1/3/23 5/22/23 7/11/23 10/3/23	5.70	2.9-8.5*	5.1	Perfluorooctanoic Acid exposures results in increased liver weight and cancer in laboratory animals.
Perfluorooctane Sulfonic Acid (PFOS) (ng/L)	1/3/23 5/22/23 7/11/23 10/3/23	4.85	2.7-6.9*	6.5	Perfluorooctane Acid exposures resulted in immune suppression and cancer in laboratory animals.
Combined PFOA & PFOS (ng/L)	2023	10.55	5.6-15.4*	11.6	

\* Any violation of an MCL, MRDL, AL or TT is asterisked. Additional information regarding the violation is provided on the next page.



**Table 6. Detection of Additional Contaminants**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects
Distribution System Total Trihalomethanes TTHM (ug/L)	8/8/23	ND	N/A	80	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
Distribution System Total Haloacetic Acids HAA5 (ug/L)	8/8/23	ND	N/A	60	Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

### 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).

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. Riverdale Park Tract 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>.

Nitrate as Nitrogen in drinking water at levels above 10mg/L is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate-N levels above 10 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.

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

In 2023, perfluorooctanoic Acid (PFOA) and perfluorooctyl Sulfonate (PFOS) were detected in the drinking water above the notification level. PFOA and PFOS are part of a group of chemicals collectively called polyfluoroalkyl substances (PFAS). The contamination of drinking water systems with PFAS has become an interesting concern due to the tendency of PFAS to accumulate in ground. Scientific studies indicate the exposure to PFAS can lead to significant health effects, especially to women who are pregnant, or likely to become pregnant and in children. Drinking water system sources located near facilities known to use, produce or store PFAS are at risk for potential contamination by PFAS. The U.S EPA is requiring this water system to participate in this study as part of the Federal Third Unregulated Contaminant Monitoring Rule. The collection of PFAS drinking water data can support future regulatory determinations and other actions to protect public health. Quarterly sampling and reporting to Stanislaus County Board of Supervisors for PFAS chemicals shall continue. No additional corrective action by the State has been required at this time.

Uranium: The quarterly average result of 12.76 for 2023 were reported below the MCL of 20. Due to broader annual fluctuations, the water system remains on compliance order and is collecting and reporting quarterly as directed.

### **Vulnerability Assessment Summary**

A source water assessment was conducted for the west well # 3 of the Riverdale Park Tract Community Services water system in February of 2002. The source is considered most vulnerable to the following activities not associated with any detected contaminants: landfills/dumps, septic systems- high density and underground storage tanks – confirmed leaking tanks. Radionuclides have been detected in this water source. For more information regarding the assessment summary, contact: Sam Hedge at (209) 406- 6069.

