



High Desert Detention Center

2022 Consumer Confidence Report

General District Information

High Desert Detention Center

Is routinely monitored for constituents in the drinking water according to Federal and State laws. The tables show the results of the Department's monitoring for the period of January 1st through December 31st, 2022.

Questions about this report or concerning the water system?

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Monday through Friday
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David Doublet
Assistant Director

"Our objective is to deliver clean, safe, and affordable water to the County residents and businesses and to work cooperatively with local and regional water purveyors to conserve and protect one of our greatest natural resources."



Steve Samaras
Division Manager

"Water quality and water availability are vital for the health, growth and the fire suppression needs of our CSA's and County clients. It is my teams responsibility to ensure that these are always our top priority."

¡MUY IMPORTANTE!

Este informe contiene información muy importante sobre su agua beber. Tradúzcalo ó hable con alguien que lo entienda bien.

The High Desert Detention Center (HDDC) is a Class III water treatment facility, operated by the Department of Public Works, Special Districts Water and Sanitation Division (Department). The HDDC is located in the City of Adelanto and currently provides safe, secure housing for over 1,400 inmates and approximately 250 safety, general and medical employees.

The system consists of a single submersible well, pre-filter, reverse osmosis system, calcite treatment, chlorinator, storage tank capacity of 226,000 gallons and four variable frequency drive (VFD) motors. The system has a backup water connection to the City of Adelanto.

Management and the HDDC staff work as a team to ensure that the highest quality water is provided to our customers. A diligent regimen of testing and analysis for bacteriological, chemical, and radiological contaminants, along with physical qualities of the water is conducted throughout the year to ensure the highest water quality.

It is important to keep customers informed about the quality of water delivered over the past year. This year's annual Consumer Confidence Report (CCR), contains information about the contaminants detected in 2022 and previous years. The Department's responsibility is to provide a safe and dependable supply of drinking 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.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (U.S. EPA) and the State Water Resources Control Board (State Water Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Water Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

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 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 at 1-800-426-4791 or visit their website at <https://www.epa.gov/dwstandardsregulations/drinking-water-contaminant-human-health-effects-information>.

This document is not a substitute for regulations, nor is it a regulation itself. Thus, it does not impose legally-binding requirements on the State Board or the Department, and may not apply to a particular situation based upon any member of the public.

This CCR reflects changes in drinking water regulatory requirements during 2022. All water systems are required to comply with the state Total Coliform Rule. Beginning April 1, 2016, all water systems are also required to comply with the federal Revised Total Coliform Rule. The new federal rule maintains the purpose to protect public health by ensuring the integrity of the drinking water distribution system and monitoring for the presence of microbials (i.e., total coliform and E. coli bacteria). The USEPA anticipates greater public health protection as the new rule requires water systems that are vulnerable to microbial contamination to identify and fix problems. Water systems that exceed a specified frequency of total coliform occurrences are required to conduct an assessment to determine if any sanitary defects exist. If found, these must be corrected by the water system.

WATER SOURCES

Well 1: Ground Water Source; located in the Alto Subarea Water Basin

Connection to the City of Adelanto water system

SOURCE WATER ASSESSMENT

Source water assessments were conducted for the HDDC water system in July 2014. Vulnerability to contamination based on the assessment findings include, septic systems, above ground storage tanks and wells. A copy of the completed assessment may be viewed at the State Water Board, Division of Drinking Water located at 464 West Fourth Street, Suite 437, San Bernardino, CA 92401, or at (909) 383-4328.

SOURCE WATER PROTECTION TIPS

Protection of drinking water is everyone's responsibility. You can help protect your community's drinking water source in several ways:

- Eliminate excess use of lawn and garden fertilizers and pesticides—they contain hazardous chemicals that can leach into your drinking water source.
- Prevent septic system leaching to source water.
- Dispose of chemicals properly; take used motor oil to a recycling center.

The subsequent tables provide many terms and abbreviations that customers may not be familiar with. To understand these terms, the district has provided the following definitions and general information:

1, 2, 3-trichloropropane (1,2,3-TCP) had a notification level (NL) of 5 ppt until December 14, 2017, when the MCL of 5 ppt became effective.

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

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.

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.

Maximum Residual Disinfectant Level (MRDL) The level of a disinfectant added for water treatment that may not be exceeded at the customer'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 health risk. MRDLGs are set by the U.S. Environmental Protection Agency.

MG Million gallons

Microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Million Fibers per Liter (MFL) million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Millirems per year (mrem/yr) measure of radiation absorbed by the body.

Nephelometric Turbidity Unit (NTU) nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

WATER CONSERVATION TIPS

Did you know that the average U.S. household uses approximately 400 gallons of water per day or 100 gallons per person per day? Luckily, there are many low-cost and no-cost ways to conserve water. Small changes can make a big difference—try one today and soon it will become second nature.

- Take short showers—a 5 minute shower uses 10 to 25 gallons of water compared to up to 50 gallons for a bath.
- Shut off water while brushing your teeth, washing your hair and shaving to save up to 500 gallons a month.
- Use a water-efficient showerhead. They are inexpensive, easy to install, and can save you up to 740 gallons a month.
- Fix leaking toilets and faucets.
- Teach your kids about water conservation to ensure a future generation that uses water wisely.

Non-Detect (ND) laboratory analysis indicates that the constituent is not present or not tested.

Organic chemical contaminants, including synthetic and volatile organic chemicals, that are byproduct of industrial processes and petroleum production, and can also come from gas stations, urban stormwater run-off, agricultural application, and septic systems.

Parts per billion (ppb) one part per billion corresponds to one minute in 2,000 years.

Parts per million (ppm) one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per quadrillion (ppq) one part per quadrillion corresponds to one minute in 2,000,000,000 years.

Parts per trillion (ppt) one part per trillion corresponds to one minute in 2,000,000 years.

Pesticides and herbicides, that may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

Picocuries per liter (pCi/L) Picocuries per liter is a measure of the radioactivity in water.

Primary Drinking Water Standard (PDWS) MCLs 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.

Radioactive contaminants, that can be naturally-occurring or be the result of oil and gas production and mining activities.

Regulatory Action Level (AL)

The concentrations of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

UCMR4 Statement Additional Unregulated Pollutants were added to the UCMR4 monitoring list.

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 are included on the following pages:

PRIMARY DRINKING WATER STANDARDS

San Bernardino County – High Desert Detention Center							
Lead and Copper (CCR Units)	Sample Date	No. of Samples Collected	90th Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	Typical Source
Lead (ppb)	2022	20	ND	0	15	0.2	Internal corrosion of household plumbing; erosion of natural deposits
Copper (ppm)	2022	20	0.22	0	1.3	0.3	Internal corrosion of household plumbing; erosion of natural deposits
Microbiological Contaminants							
Contaminants	Sample Period	Highest No. of Detections	No. of Months in Violation	MCL		MCLG	Typical Source of Bacteria
Total Coliform (State Total Coliform Rule)	2022	0	0	1 positive monthly sample		0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i> (State Total Coliform Rule)	2022	0	0	A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or <i>E. coli</i> positive		-	Human and animal fecal waste
<i>E. Coli</i> (Federal Revised Total Coliform Rule)	2022	0	0	(a)		0	Human and animal fecal waste
(a) Routine and repeat samples are total coliform-positive and either is <i>E. coli</i> -positive or system fails to take repeat samples following <i>E. coli</i> -positive routine sample or system fails to analyze total coliform-positive repeat sample for <i>E. coli</i> .							

Primary Inorganic Contaminants							
Chemical or Constituent (CRR Units)	Sample Date	Average Level	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	MCL Violation	Typical Source of Contaminant***
Fluoride (ppm)	2022	0.46	0.12-0.72	2	1	NO	Erosion of natural deposits; water additive that promotes strong teeth
Arsenic* (ppb)	2022	6.8	3.3-11	10	0.004	NO	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes

Disinfectant Byproducts and Chemical Disinfectant							
Chemical or Constituent (CRR Units)	Sample Date	Average Level	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	MCL Violation	Typical Source of Contaminant
Cl Res Total (ppm)	2022	1.05	0.79-1.21	4	4	NO	Drinking water disinfectant added for treatment
Total Trihalomethanes – TTHM – (ppb)	2022	1	1	80	N/A	NO	Byproduct of drinking water chlorination
Total Haloacetic Acids – HAA5 – (ppb)	2022	ND	ND	60	N/A	NO	Byproduct of drinking water disinfection



SECONDARY DRINKING WATER STANDARDS

Chemical or Constituent (CCR Units)	Sample Date	Average Level	Range of Detections	MCL [MRDL]	PHG (MCLG)	MCL Violation	Typical Source of Contaminant
Odor Threshold (Units)	2022	1	1	3	N/A	NO	Naturally occurring organic materials
Turbidity (Units)	2022	0.14	0.1-0.2	5	N/A	NO	Soil runoff
Specific Conductance E.C. (umhos/cm)	2021	171.6	9-430	1,600	N/A	NO	Substances that form ions when in water; seawater influence
Total Dissolved Solids/TDS (ppm)	2021	250	250	1000	N/A	NO	Runoff/leaching from natural deposits
Chloride (ppm)	2021	10	10	500	N/A	NO	Runoff/leaching from natural deposits; seawater influence
Sulfate (SO4) (ppm)	2021	54	54	500	N/A	NO	Runoff/leaching from natural deposits; industrial wastes

ADDITIONAL CONSTITUENTS

Chemical or Constituent	Sample Date	Average Level	Range of Detections	MCL [MRDL]	PHG (MCLG)	MCL Violation	Typical Source of Contaminant
pH (Lab)	2021	8.40	7.9-8.9	N/A	N/A	NO	N/A
Alkalinity, Total (as CaCO3) (mg/L)	2021	66.2	40-150	N/A	N/A	NO	N/A
Bicarbonate (HCO3) (mg/L)	2021	110	110	N/A	N/A	NO	N/A
Hardness, Total (as CaCO3) (mg/L)	2021	3.7	3.7	N/A	N/A	NO	N/A
Total Anions (meq/L)	2021	4.5	4.5	N/A	N/A	NO	N/A
Calcium (Ca) (mg/L)	2021	7.46	1.5-11	N/A	N/A	NO	N/A
Sodium (Na) (mg/L)	2021	99	99	N/A	N/A	NO	N/A
Aggressive Index	2021	11.24	11.04-11.62	N/A	N/A	NO	N/A

UNREGULATED CONSTITUENTS

Chemical or Constituent	Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects Language
Boron (B) (ppb)	2021	440	440	1	The babies of some pregnant women who drink water containing boron in excess of the notification level may have an increased risk of developmental effects, based on studies in laboratory animals.
Vanadium (ppb) (Pre-Treatment)	2022	97.7	81-110	50	Vanadium exposures resulted in developmental and reproductive effects in rats.



SHOULD CUSTOMERS BE CONCERNED?

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 microbiological contaminants are available from the Safe drinking water hotline (1-800-426-4791).

*Arsenic samples are taken weekly at HDDC. Although a couple of arsenic tests exceeded the MCL in 2022, the running annual average was below the MCL and therefore not a violation. While your drinking water meets the federal and state standard for arsenic, it does contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The U.S. Environmental Protection Agency continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

➡ This vanadium result shown on previous table was taken from the well before treatment.

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. The Department, 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 at <http://www.epa.gov/lead>.

In 2022, the High Desert Detention Center used a limited supply of water from the City of Adelanto.

Information about Adelanto's water quality sampling can be found at: <https://www.ci.adelanto.ca.us/453/water-quality>

