

**Annual Drinking Water Quality Report  
2022 Consumer Confidence Report**

**TX0150047** CITY OF CONVERSE  
**TX0940096** CANYON REGIONAL WATER AUTHORITY –LAKE WELLS RANCH  
**TX0940091** CANYON REGIONAL WATER AUTHORITY –LAKE DUNLAP

Annual Water Quality Report for the period of January 1 to December 31, 2022

This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water.

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (210) 658-3453.

City of Converse is Ground Water  
CRWA Lake Wells Ranch WTP is Ground Water  
CRWA Lake Dunlap WTP is Surface Water

**Special Notice: Required language for ALL community public water supplies**

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immune compromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care providers. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline (800-426-4791).

**Water Sources**

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, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
  
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

For more information regarding this report contact:

Name City of Converse

Phone (210) 658-3453

**Public Participation Opportunities:**

To learn about future public meetings concerning your drinking water or to request a meeting, please call us.

Date: Monday –Friday  
Time 8:00 a.m. to 5:00 p.m.

Location: 9239 Converse Business Lane  
Phone Number: 210-658-3453

**Where do we get our drinking water?**

Our drinking water is obtained from multiple water sources: **The City of Converse wells pump directly from the EDWARDS Aquifer. Additional sources received are from the Canyon Regional Water Authority (CRWA), ground water from Wells Ranch, surface water from Lake Dunlap.** For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: <https://www.tceq.texas.gov/gis/swaview>

The TCEQ completed an assessment of your source water and results indicate that some of your sources are susceptible to certain contaminants. The sampling requirements for your water system are based on this susceptibility and previous sample data. Any detection of these contaminants may be found in this Consumer Confident Report. For more information on source water assessments and protection efforts at our system, please contact Jonathan Smith, Director of Public Works at (210) 658-3453. Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: <https://dww2.tceq.texas.gov/DWW/>

**ALL drinking water may contain contaminants:**

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 EPAs Safe Drinking Water Hotline at (800) 426-4791.

**Secondary Constituents:**

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health. Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system’s business office.

**Information about Source Water Assessments**

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: <https://www.tceq.texas.gov/gis/swaview> Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: <https://dww2.tceq.texas.gov/DWW/>

Source Water Name	Type of Water	Report Status	Location
<b><u>TX0150047</u></b> <b><u>CITY OF CONVERSE</u></b>	<b><u>Pages</u></b>		
Bob Grubb	GW	Y	Bexar
Gibbs Sprawl Rd	GW	Y	Bexar
N Cimarron 2	GW	Y	Bexar

**TX0940096 CRWA –LAKE WELLS RANCH**

1 – TOMMY'S WELL	GW	Operational	Gonzales
11 – COASTAL FIELD	GW	Operational	Gonzales
12 – BULL TRAP	GW	Operational	Gonzales
2 – DEER STAND	GW	Operational	Guadalupe
4 – PIG TRAP	GW	Operational	Guadalupe
7 – DEAD MAN TANK	GW	Operational	Guadalupe
9 – CAMP HOUSE	GW	Operational	Guadalupe
8 – CHICKEN HOUSE	GW	Operational	Guadalupe
3 – DEER STAND WILCOX	GW	Operational	Guadalupe
4 – DEAD MAN TANK WILCOX	GW	Operational	Guadalupe
5 – LITTLEFIELD	GW	Operational	Gonzales
13 – BOND WEST	GW	Operational	Gonzales
14 – CHRISTIAN WEST	GW	Operational	Gonzales
15 – BOND EAST	GW	Operational	Gonzales
16 – CHRISTIAN EAST	GW	Operational	Gonzales

**TX0940091 CRWA –LAKE DUNLAP**

1 –3/LAKE DUNLAP	SW	Operational	850 Lakeside Pass, New Braunfels, TX 78130
4 –7/LAKE DUNLAP	SW	Operational	850 Lakeside Pass, New Braunfels, TX 78130

## 2022 Annual Drinking Water Quality Report

### Water Quality Test Results

#### Definitions:

The following tables contain scientific terms and measures, some of which may require explanation.

Action Level:	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system follows.
Action Level Goal (ALG):	The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow a margin of safety.
Avg:	Regulatory compliance with some MCLs are based on running annual average of monthly samples.
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.
Maximum Contaminant Level or MCL:	The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
Maximum Contaminant Level Goal or MCLG:	The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
Maximum residual disinfectant level or 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 or 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.
MFL	million fibers per liter (a measure of asbestos)
mrem:	millirems per year (a measure of radiation absorbed by the body)
NA:	not applicable.
NTU	nephelometric turbidity units (a measure of turbidity)
ND	Non-detects –laboratory analysis indicates that the constituent is not present.
pCi/L	picocuries per liter (a measure of radioactivity)
ppb:	micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.
ppm:	milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

ppt parts per trillion, or nanograms per liter (ng/L)

ppq parts per quadrillion, or picograms per liter (pg/L)

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

**TX0150047 City of Converse**

**Regulated Contaminants Detected**

**Coliform Bacteria**

Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
0	1 positive monthly sample.	1		0	N	Naturally present in the environment.

**Required Additional Health Information for Lead**

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 water supply 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 <https://www.epa.gov/safewater/lead>

**Lead and Copper**

Definitions:

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90 <sup>th</sup> Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2022	1.3	1.3	0.13	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems
Lead	2022	0	15	0.8	0	Ppb	N	Corrosion of household plumbing systems; Erosion of natural deposit
<ul style="list-style-type: none"> <li><b>Lead and Copper Rule Testing</b>  <i>The 1994 Federal Lead &amp; Copper Rule mandates a household testing program for these substances. According to the rule, 90% of samples from high-risk homes must have levels less than 0.015 milligrams per liter for lead and 1.3 milligrams per liter for copper.</i> </li> </ul>								

**Maximum Residual Disinfectant Level**

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Levels Detected	Violation (Y/N)	Source in Drinking Water
Chlorine	2022	0.98	0.31-1.99	4	4	ppm	N	Water additive used to control microbes
Disinfectants and By Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2022	6	0-4.8	No goal for the total	60	ppb	N	By-product of drinking water disinfection
Total Trihalomethanes (TTHm)	2022	25	0-32.1	No goal for the total	80	ppb	N	By-product of drinking water disinfection

Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future. \* The value in the Highest Level or Average Detected column is the highest average of all HAA5 or TTHM sample results collected at the location over a year.

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Antimony	2022	ND	N/A	6	6	Ppb	N	Discharge from petroleum refineries, fire retardants, ceramics, electronics, solder
Arsenic	2022	ND	N/A	N/A	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Barium	2/7/2022	0.146	0.111-0.146	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Beryllium	2022	ND	N/A	4	4	Ppb	N	Discharge from metal refineries and coal burning factories; discharge from electrical aerospace and defense industries

Cadmium	2022	ND	N/A	5	5	Ppb	N	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
Chromium	2022	ND	N/A	100	100	Ppb	N	Discharge from steel and pulp mills; Erosion of natural deposits
Cyanide	2022	ND	N/A	200	200	Ppm	N	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride	2022	1.69	0.24-1.69	4	4.0	Ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Mercury	2022	ND	N/A	2	2	Ppm	N	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland
Nickel	2022	0.002	0-2	2	2	Ppm	N	Erosion of natural deposits
Nitrate (measured as Nitrogen)	2022	2	0.1-1.89	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

**Fluoride Advisory** – Fluoride in drinking water could cause a cosmetic dental problem that might affect children under nine years of age. At low levels, fluoride can help prevent cavities, but children drinking water containing more than 2 milligrams per liter (mg/L) of fluoride may develop cosmetic discoloration of their permanent teeth (dental fluorosis). The drinking water provided by City of Converse has a fluoride concentration of 0.35 mg/L.

Dental fluorosis, in its moderate or severe forms, may result in brown staining and/or pitting of the permanent teeth. This problem occurs only in developing teeth before they erupt from the gums. Children under nine should be provided with alternative sources of drinking water or water that has been treated to remove the fluoride to avoid the possibility of staining and pitting of their permanent teeth. Customers may also want to contact their dentist about proper use by young children of fluoride-containing products. Older children and adults may safely drink the water.

For more information, please call Water Department of City of Converse at (210) 658-3453. Some home water treatment units are also available to remove fluoride from drinking water. To learn more about available home water treatment units, please call NSF International at 1-877-8-NSF-HELP.

**Nitrate Advisory** –Nitrate in drinking water at levels about 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask advice from your health care provider.

Selenium	2022	ND	N/A	50	50	Ppm	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
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Thallium	2022	ND	N/A	0.5	2	ppb	N	Discharge from electronics, glass, Leaching from ore-processing sites, drug factories.
<b>Radioactive Contaminants</b>	<b>Collection Date</b>	<b>Highest Level Detected</b>	<b>Range of Levels Detected</b>	<b>MCLG</b>	<b>MCL</b>	<b>Units</b>	<b>Violation</b>	<b>Likely Source of Contamination</b>
Combined Radium 226/228	1/5/2017	1.06	0 –1.06	0	5	pCi/L	N	Erosion of natural deposits.
Gross alpha excluding radon and uranium	2020	3	3	0	15	pCi/L	N	Erosion of natural deposits.
Uranium	2/27/2020	1	1-1	0	30	ug/l	N	Erosion of natural deposits.
<b>Volatile Organic Contaminants</b>	<b>Collection Date</b>	<b>Highest Level Detected</b>	<b>Range of Individual Samples</b>	<b>MCLG</b>	<b>MCL</b>	<b>Units</b>	<b>Violation</b>	<b>Likely Source of Contamination</b>
Ethylbenzene	2019	1.6	0-1.6	700	700	Ppb	N	Discharge from petroleum refineries.
Xylenes	2021	0.0025	0.0-.0025	10	10	ppm	N	Discharge from petroleum factories; Discharge from chemical factories.

### Violations Table

City of Converse did not receive any violations for the year 2022.

Violation Type	Violation Begin	Violation End	Violation Explanation
N/A	N/A	N/A	

In the water loss audit submitted to the Texas Water Development Board for the time period of Jan-Dec 2021, our system lost an estimated 17.5 MGPY of water. If you have any questions about the water loss audit, please call the PWS phone number.

**TX0940096 CRWA WELLS RANCH WTP**

<b>Microbiological Contaminants</b>	<b>Collection Date</b>	<b>Highest Level Detected</b>	<b>Range of Levels Detected</b>	<b>MCLG</b>	<b>MCL</b> MCL:(systems that collect 40 or more samples per month) 5% of monthly samples are positive (Systems that collect <40 samples/month- 1 positive monthly sample)	<b>Units</b>	<b>Violation</b>	<b>Likely Source of Contamination</b>
Total Coliform Bacteria	2022	Absent	Absent or Present	0		N/A	N	Naturally present in the environment
Fecal coliform and <i>E.coli</i>	2022	Absent	Absent or Present	0	0	N/A	N	Human and animal fecal waste
TOC	N/A	N/A	N/A	N/A	TT	Mg/L	N	Naturally present in the environment
Turbidity	N/A	N/A	N/A	N/A	TT	NTU	N	Soil runoff, Bacteria, organic material, suspended particles
<b>Radioactive Contaminants</b>	<b>Collection Date</b>	<b>Highest Level Detected</b>	<b>Range of Levels Detected</b>	<b>MCLG</b>	<b>MCL</b>	<b>Units</b>	<b>Violation</b>	<b>Likely Source of Contamination</b>
Beta/Photon emitters	2018	5.5	0-50	0	50	pCi/L	N	Decay of natural and man-made deposits
Alpha emitters	2018	<3.0	0-15	0	No MCL	pCi/L	N	Erosion of natural deposits
Combined radium (-226 & 228)	2018	<1.0	0-5	0	5	pCi/L	N	Erosion of natural deposits
<b>Inorganic Contaminants</b>	<b>Collection Date</b>	<b>Highest Level Detected</b>	<b>Range of Levels Detected</b>	<b>MCLG</b>	<b>MCL</b>	<b>Units</b>	<b>Violation</b>	<b>Likely Source of Contamination</b>
Antimony	2022	ND	N/A	6	6	Ppb	N	Discharge from petroleum refineries, fire retardants, ceramics, electronics, solder
Arsenic	2022	ND	N/A	N/A	10	Ppb	N	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes

Asbestos	2018	<0.197	<0.197-<0.197	7	7	MFL	N	Decay of asbestos cement water mains; erosion of natural deposits
Barium	2022	0.0452	0.0452-0.0452	2	2	Mg/L	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Beryllium	2022	ND	N/A	4	4	Ppb	N	Discharge from metal refineries and coal burning factories; discharge from electrical aerospace and defense industries
Cadmium	2022	ND	N/A	5	5	Ppb	N	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
Chromium	2022	ND	N/A	100	100	Ppb	N	Discharge from steel and pulp mills; erosion of natural deposits
Copper	2022	0.0566	0.0566-0.0566	1.3	AL=1.3 (EPA National Primary Drinking Water Regulations)	Ppm	N	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wool preservatives
Cyanide	2020	ND	N/A	200	200	Ppm	N	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride	2022	.12	.12-.12	4	4	Ppm	N	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Lead	2022	.0033	.0033-.0033	0	AL=15	Ppb	N	Corrosion of household plumbing systems; erosion of natural deposits
Mercury (inorganic)	2022	ND	N/A	2	2	Ppb	N	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland
Nitrate (as Nitrogen)	2022	0.14	0.14-0.14	10	10	Ppm	N	Runoff from fertilizer use: leaching from septic tanks, sewage; erosion of natural deposits
Nitrate (as Nitrogen)	2015	ND	N/A	1	1	Ppm	N	Runoff from fertilizer use: leaching from septic tanks, sewage; erosion of natural deposits
Selenium	2022	ND	N/A	50	50	Ppm	N	Discharge from petroleum and meal refineries; erosion of natural deposits; discharge from mines
Thallium	2022	ND	N/A	0.5	2	Ppb	N	Leaching from ore-processing sites; discharge from electronics, glass

								and drug factories
<b>Synthetic Organic Contaminants Including Pesticides and Herbicides</b>	<b>Collection Date</b>	<b>Highest Level Detected</b>	<b>Range of Levels Detected</b>	<b>MCLG</b>	<b>MCL</b>	<b>Units</b>	<b>Violation</b>	<b>Likely Source of Contamination</b>
2, 4, -D	2022	ND	N/A	70	70	Ppb	N	Runoff from herbicide used on row crops
2, 4, 5-TP (Silvex)	2022	ND	N/A	50	50	Ppb	N	Residue of banned herbicide
Acrylonitrile	2021	0	0-10	0	TT	Ppb	N	Added to water during sewage/wastewater treatment
Alachlor	2022	ND	N/A	0	2	Ppb	N	Runoff from herbicide used on row crops
Atrazine	2022	ND	N/A	3	3	Ppb	N	Runoff from herbicide used on row crops
Benzo(a)pyrene (PAH)	2022	ND	N/A	0	200	Ppt	N	Leaching from linings of water storage tanks and distribution lines
Carbofuran	2022	ND	N/A	40	40	Ppb	N	Leaching from soil fumigant used on rice and alfalfa
Chlordane	2022	ND	N/A	0	2	Ppb	N	Residue of banned termiticide
Dalapon	2022	ND	N/A	200	200	Ppb	N	Runoff from herbicide used on the rights of way
Di(2-ethylhexyl) adipate	2022	ND	N/A	400	400	Ppb	N	Discharge from chemical factories
Di(2-ethylhexyl) phthalate	2022	ND	N/A	0	6	Ppb	N	Discharge from rubber and chemical factories
Dinoseb	2022	ND	N/A	7	7	Ppb	N	Runoff from herbicide used on soybeans and vegetables
Diquat	N/A	N/A	N/A	20	20	Ppb	N/A	Runoff from herbicide use
Dioxin[2,3,7,8-TCDD]	N/A	N/A	N/A	0	30	Ppq	N/A	Emissions from waste incineration and other combustion; discharge from chemical factories
1, 2-Dibromo-3-chloropropane	2022	ND	N/A	0	200	Ppt	N	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples and orchards
Endothall	N/A	N/A	N/A	100	100	Ppb	N/A	Runoff from herbicide use
Endrin	2022	ND	N/A	2	2	Ppb	N	Residue of banned insecticide
Epichlorohydrin	N/A	N/A	N/A	0	TT	N/A	N/A	Discharge from industrial chemical

								factories; an impurity of some water treatment chemicals
Ethylene dibromide	2022	ND	N/A	0	50	Ppt	N	Discharge from petroleum refineries
Glyphosate	N/A	N/A	N/A	700	700	Ppb	N/A	Runoff from herbicide use
Heptachlor	2022	ND	N/A	0	400	Ppt	N	Residue from banned termiticide
Heptachlor epoxide	2022	ND	N/A	0	200	Ppt	N	Breakdown of heptachlor
Hexachlorobenzene	2022	ND	N/A	0	1	Ppb	N	Discharge of metal refineries and agricultural chemical factories
Hexachlorocyclopentadiene	2022	ND	N/A	50	50	Ppb	N	Discharge from chemical factories
Lindane	N/A	N/A	N/A	200	200	Ppt	N/A	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor	2022	ND	N/A	40	40	Ppb	N	Runoff/leaching from insecticides used on fruits, vegetables, alfalfa, livestock
Oxamyl [Vydate]	2022	ND	N/A	200	200	Ppb	N	Runoff from landfills of waste chemicals
PCBs[Polychlorinated-biphenyls]	N/A	N/A	N/A	0	500	Ppt	N/A	Runoff from landfills; discharge of waste chemicals
Pentachlorophenol	2022	ND	N/A	0	1	Ppb	N	Discharge from wood preserving factories
Picloram	2022	ND	N/A	500	500	Ppb	N	Herbicide runoff
Simazine	2022	ND	N/A	4	4	Ppb	N	Herbicide runoff
Toxaphene	2022	ND	N/A	0	3	Ppb	N	Runoff/leaching from insecticide used on cotton and cattle
<b>Volatile Organic Contaminants</b>	<b>Collection Date</b>	<b>Highest Level Detected</b>	<b>Range of Levels Detected</b>	<b>MCLG</b>	<b>MCL</b>	<b>Units</b>	<b>Violation</b>	<b>Likely Source of Contamination</b>
Benzene	2022	ND	N/A	0	5	Ppb	N	Discharge from factories; leaching from gas storage tanks and landfills
Bromate	N/A	N/A	N/A	0	10	Ppb	N	By-product of drinking water chlorination
Carbon Tetrachloride	2022	ND	N/A	0	5	Ppb	N	Discharge from chemical plants and other industrial activities
Chloramines	N/A	N/A	N/A	MRDLG=4	MRDL=4	Ppm	N/A	Water additive used to control microbes
Chlorine	2022	2.22	1.89-2.79	MRDLG=4	MRDL=4	Ppm	N	Water additive used to control microbes

Chlorite	N/A	N/A	N/A	0.8	1.0	Ppm	N	By-product of drinking water chlorination
Chlorine Dioxide	N/A	N/A	N/A	MRDLG=800	MRDL=800	Ppb	N	Water Additive used to control microbes
Chlorobenzene	2022	ND	N/A	100	100	Ppb	N	Discharge from chemical and agricultural chemical factories
o-Dichlorobenzene	2022	ND	N/A	600	600	Ppb	N	Discharge from industrial chemical factories
p-Dichlorobenzene	2022	ND	N/A	75	75	Ppb	N	Discharge from industrial chemical factories
1,2-Dichloroethane	2022	ND	N/A	0	5	Ppb	N	Discharge from industrial chemical factories
1,1-Dichloroethylene	2022	ND	N/A	7	7	Ppb	N	Discharge from industrial chemical factories
Cis-1,2-Dichloroethylene	2022	ND	N/A	70	70	Ppb	N	Discharge from industrial chemical factories
Trans-1,2-Dichloroethylene	2022	ND	N/A	100	100	Ppb	N	Discharge from industrial chemical factories
Dichloromethane	2022	ND	N/A	0	5	Ppb	N	Discharge from pharmaceutical and chemical factories
1,2 Dichloropropane	2022	ND	N/A	0	5	Ppb	N	Discharge from industrial chemical factories
Ethylbenzene	2022	ND	N/A	700	700	Ppb	N	Discharge from petroleum refineries
Haloacetic Acids (HAA)	2021	1.1	0-60	N/A	60	Ppb	N	By-product of disinfection
Styrene	2022	ND	N/A	100	100	Ppb	N	Discharge from rubber and plastic factories; leaching from landfills
Tetrachloroethylene	2022	ND	N/A	0	5	Ppb	N	Leaching from PVC pipes; discharge from factories and dry cleaners
1,2,4-Trichlorobenzene	2022	ND	N/A	70	70	Ppb	N	Discharge from textile-finishing factories
1,1,1-Trichloroethane	2022	ND	N/A	200	200	Ppb	N	Discharge from metal degreasing sites and other factories
1,1,2-Trichloroethane	2022	ND	N/A	3	5	Ppb	N	Discharge from industrial chemical factories
Trichloroethylene	2022	ND	N/A	0	5	Ppb	N	Discharge from metal degreasing sites and other factories
TTHM [Total trihalomethanes]	2021	8.2	8.2-8.2	N/A	80	Ppb	N	By-product of drinking water chlorination
Toluene	2022	ND	N/A	1	1	Ppm	N	Discharge from petroleum factories
Vinyl Chloride	2022	ND	N/A	0	2	Ppb	N	Leaching from PVC piping, discharge from plastic factories
Xylenes	2022	ND	N/A	10	10	Ppm	N	Discharge from petroleum factories; discharge from chemical factories

\*EPA considers 50 pCi/L to be the level of concern for beta particles.

**Violations Table**

Canyon Regional Water Authority Wells Ranch Water Treatment Plant did not receive violations for the year 2022.

Violations Type	Violation Begin	Violation End	Violation Explanation
N/A	N/A	N/A	N/A

**TX0940091 CRWA LAKE DUNLAP WTP**

Microbiological Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violations	Likely Source of Contamination
Total Coliform Bacteria	2022	Absent	N/A	0	MCL:(systems that collect 40 or more samples per month) 5% of monthly samples are positive (Systems that collect <40 samples/month- 1 positive monthly sample	N/A	N	Naturally present in the environment
Fecal coliform and <i>E.coli</i>	2022	Absent	N/A	0	0	N/A	N	Human and animal fecal waste
TOC	2022	2.05	.92-2.05	N/A	TT	Mg/L	N	Naturally present in the environment
Turbidity	2022	.14	0.3-1.00	N/A	TT	NTU	N	Soil runoff, bacteria, organic material, suspended particles
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/Photon emitters	2017	ND	N/A	0	4	pCi/L	N	Decay of natural and man-made deposits
Alpha emitters	2017	ND	N/A	0	15	pCi/L	N	Erosion of natural deposits
Combined radium (-226 & 228)	2017	ND	N/A	0	5	pCi/L	N	Erosion of natural deposits
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
								Discharge from petroleum

Antimony	2022	ND	N/A	6	6	Ppb	N	refineries, fire retardants, ceramics, electronics, solder
Arsenic	2022	ND	N/A	N/A	10	Ppb	N	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Asbestos	2022	ND	N/A	7	7	MFL	N	Decay of asbestos cement water mains; erosion of natural deposits
Barium	2022	0.0438	0.0438-0.0438	2	2	Ppm	N	Discharge of drilling wastes; Discharge of metal refineries; Erosion of natural deposits
Beryllium	2022	ND	N/A	4	4	Ppb	N	Discharge of metal refineries and coal burning factories; discharge from electrical aerospace and defense industries
Cadmium	2022	ND	N/A	5	5	Ppb	N	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
Chromium	2022	ND	N/A	100	100	Ppb	N	Discharge from steel and pulp mills/ erosion of natural deposits
Copper	2022	0.0442	0.0442-0.0442	1.3	AL=1.3 (EPA National Primary Drinking Water Regulations)	Ppm	N	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Cyanide	2022	ND	N/A	200	200	Ppm	N	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride	2022	0.20	0.2-0.2	4	4	Ppm	N	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Lead	2022	ND	N/A	0	AL=15	Ppb	N	Corrosion of household plumbing system, erosion of natural deposits
Mercury (inorganic)	2022	ND	N/A	2	2	Ppb	N	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland

Nitrate (as Nitrogen)	2022	1.72	1.72-1.72	10	10	Ppm	N	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite (as Nitrogen)	2022	ND	N/A	1	1	Ppm	N	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	2022	ND	N/A	50	50	Ppm	N	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Thallium	2022	ND	N/A	0.5	2	Ppb	N	Leaching from ore-processing sites; discharge from electronics, glass and drug factories
Uranium	2017	ND	N/A	0	30	Ppb	N	Erosion of natural deposits
<b>Synthetic Organic Contaminants Including Pesticides and Herbicides</b>	<b>Collection Date</b>	<b>Highest Level Detected</b>	<b>Range of Levels Detected</b>	<b>MCLG</b>	<b>MCL</b>	<b>Units</b>	<b>Violation</b>	<b>Likely Source of Contamination</b>
2, 4, -D	2022	ND	N/A	70	70	Ppb	N	Runoff from herbicide used on row crops
2, 4, 5-TP (Silver)	2022	ND	N/A	50	50	Ppb	N	Residue of banned herbicide
Acrylonitrile	2021	0	0-10	0	TT	Ppb	N	Used in the manufacturing of plastic
Acrylamide	N/A	N/A	N/A	0	TT	Ppb	N	Used in the manufacturing of plastic
Alachlor	2022	ND	N/A	0	2	Ppb	N	Runoff from herbicide used on row crops
Atrazine	2022	ND	N/A	3	3	Ppb	N	Runoff from herbicide used on row crops
Benzo(a)pyrene (PAH)	2022	ND	N/A	0	200	Nanograms/L	N	Leaching from linings of water storage tanks and distribution lines
Carbofuran	2022	ND	N/A	40	40	Ppb	N	Leaching of soil fumigant used on rice and alfalfa
Chlordane	2022	ND	N/A	0	2	Ppb	N	Residue of banned termiticide
Dalapon	2022	ND	N/A	200	200	Ppb	N	Runoff from herbicide used on the rights of way
Di(2-ethylhexyl) adipate	2022	ND	N/A	400	400	Ppb	N	Discharge from chemical factories
Di(2-ethylhexyl) phthalate	2022	ND	N/A	0	6	Ppb	N	Discharge from rubber and chemical factories

Dinoseb	2022	ND	N/A	7	7	Ppb	N	Runoff from herbicide used on soybeans and vegetables
1,2-Dibromo-3-chloropropane	2022	ND	N/A	0	200	Ppt	N	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples and orchards
Diquat	N/A	N/A	N/A	20	20	Ppb	N/A	Runoff from herbicide use
<b>Synthetic Organic Contaminants Including Pesticides and Herbicides</b>	<b>Collection Date</b>	<b>Highest Level Detected</b>	<b>Range of Levels Detected</b>	<b>MCLG</b>	<b>MCL</b>	<b>Units</b>	<b>Violation</b>	<b>Likely Source of Contamination</b>
Dioxin[2,3,7,8-TCDD]	N/A	N/A	N/A	0	30	Ppq	N/A	Emission from waste incineration and other combustion; discharge from chemical factories
Dibromochloropropane	2018	0	0-200	0	200	Nanograms/L	N	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples and orchards
Endothall	N/A	N/A	N/A	100	100	Ppb	N/a	Runoff from herbicide use
Endrin	2022	ND	N/A	2	2	Ppb	N	Residue of banned insecticide
Epichlorohydrin	N/A	N/A	N/A	0	TT	N/A	N/A	Discharge from industrial chemical factories; an impurity of some water treatment chemicals
Ethylene dibromide	2022	ND	N/A	0	50	Ppt	N	Discharge from petroleum refineries
Glyphosate	N/A	N/A	N/A	700	700	Ppb	N/A	Runoff from herbicide use
Heptachlor	2022	ND	N/A	0	400	Ppt	N	Residue from banned termiticide
Heptachlor epoxide	2022	ND	N/A	0	200	Ppt	N	Breakdown of heptachlor
Hexachlorobenzene	2022	ND	N/A	0	1	Ppb	N	Discharge from metal refineries and agricultural chemical factories
Hexachlorocyclopentadiene	2022	ND	N/A	50	50	Ppb	N	Discharge from chemical factories
Lindane	N/A	N/A	N/A	200	200	Ppt	N/A	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor	2022	NA	N/A	40	40	Ppb	N	Runoff/leaching from insecticides used on fruits, vegetables, alfalfa, livestock
Oxamyl [Vydate]	2022	NA	N/A	200	200	Ppb	N	Runoff from landfills of waste

								chemicals
PCBs [Polychlorinated biphenyls]	N/A	N/A	N/A	0	500	PpT	N/A	Runoff from landfills; discharge of waste chemicals
Pentachlorophe-nol	2022	ND	N/A	0	1	Ppb	N	Discharge from wood preserving factories
Picloram	2022	ND	N/A	500	500	Ppb	N	Herbicide runoff
Simazine	2022	ND	N/A	4	4	Ppb	N	Herbicide runoff
Toxaphene	2022	ND	N/A	0	3	Ppb	N	Runoff/leaching from insecticide used on cotton and cattle
<b>Volatile Organic Contaminants</b>	<b>Collection Date</b>	<b>Highest Level Detected</b>	<b>Range of Levels Detected</b>	<b>MCLG</b>	<b>MCL</b>	<b>Units</b>	<b>Violation</b>	<b>Likely Source of Contamination</b>
Benzene	2022	ND	N/A	0	5	Ppb	N	Discharge from factories; leaching from gas storage tanks and landfills
Bromate	2022	ND	N/A	0	10	Ppb	N	By-product of drinking water chlorination
Carbon Tetrachloride	2022	ND	N/A	0	5	Ppb	N	Discharge from chemical plants and other industrial activities
Chloramines	N/A	N/A	0 - 4	MRDLG=4	MRDL=4	Ppm	N	Water additive used to control microbes
Chlorine	2022	2.21	1.58-3.6	MRDLG=4	MRDL=4	Ppm	N	Water additive used to control microbes
Chlorite	2022	0.64	0.0-.064	0.8	1.0	Ppm	N	By-product of drinking water chlorination
Chlorine Dioxide	2022	0	0-10	MRDLG=800	MRDL=800	Ppb	N	Water additive used to control microbes
Chlorobenzene	2022	ND	N/A	100	100	Ppb	N	Discharge from chemical and agricultural chemical factories
o-Dichlorobenzene	2022	ND	N/A	600	600	Ppb	N	Discharge from industrial chemical factories
p-Dichlorobenzene	2022	ND	N/A	75	75	Ppb	N	Discharge from industrial chemical factories
1,2-Dichloroethene	2022	ND	N/A	0	5	Ppb	N	Discharge from industrial chemical factories
1,1- Dichloroethylene	2022	ND	N/A	7	7	Ppb	N	Discharge from industrial chemical factories
Cis-1,2- Dichloroethylene	2022	ND	N/A	70	70	Ppb	N	Discharge from industrial chemical factories
Trans-1,2- Dichloroethylene	2022	ND	N/A	100	100	Ppb	N	Discharge from industrial chemical factories
Dichloromethane	2022	ND	N/A	0	5	Ppb	N	Discharge from pharmaceutical and chemical factories

1,2-Dichloropropane	2022	ND	N/A	0	5	Ppb	N	Discharge from industrial chemical factories
Ethylbenzene	2022	ND	N/A	700	700	Ppb	N	Discharge from Petroleum refineries
Haloacetic Acids (HAA)	2022	48.3	32.6-71.7	N/A	60	Ppb	N	By-product of disinfection
Styrene	2022	ND	N/A	100	100	Ppb	N	Discharge from rubber and plastic factories; leaching from landfills
Tetrachloroethylene	2022	ND	N/A	0	5	Ppb	N	Leaching from PVC pipes; discharge from factories and dry cleaners
1,2,4-Trichlorobenzene	2022	ND	N/A	70	70	Ppb	N	Discharge from textile-finishing factories
1,1,1-Trichloroethane	2022	ND	N/A	200	200	Ppb	N	Discharge from metal degreasing sites and other factories
1,1,2-Trichloroethane	2022	ND	N/A	3	5	Ppb	N	Discharge from industrial chemical factories
Trichloroethylene	2022	ND	N/A	0	5	Ppb	N	Discharge from metal degreasing sites and other factories
TTHM [Total trihalomethanes]	2022	59.2	41.5-68.4	0	80	Ppb	Y	By-product of drinking water chlorination
Toluene	2022	ND	N/A	1	1	Ppm	N	Discharge from petroleum factories
Vinyl Chloride	2022	ND	N/A	0	2	Ppb	N	Leaching from PVC piping; discharge from plastic factories
Xylenes	2022	ND	N/A	10	10	Ppm	N	Discharge from Petroleum factories; discharge from chemical factories

\*EPA considers 50 pCi/L to be the level of concern for beta particles.

### **Violations Table**

Canyon Regional Water Authority Lake Dunlap Treatment Plant did not receive violations for the year 2022.

<b>Violations Type</b>	<b>Violation Begin</b>	<b>Violation End</b>	<b>Violation Explanation</b>
N/A	N/A	N/A	N/A