This Annual Water Quality Report provides information on your drinking water. The United States Environmental Protection Agency (EPA) requires that all drinking water suppliers provide a water quality report to their customers on an annual basis. This report also contains important information on the quality of your water and contact information you may wish to use.

WHERE DOES MY WATER COME FROM?
Rancho Del Sol Lindo is a small community water system located southwest of Silverbell Road and North Trico Road. Rancho del Sol Lindo has 1,039 services supplying approximately 2,909 persons with water from two wells, W-004A and W-005A.

WERE THERE ANY CONTAMINANTS DETECTED IN MY DRINKING WATER?
Tucson Water continuously monitors the drinking water that is delivered to you to comply with regulations set by the EPA. In addition to this required monitoring, Tucson Water performs a great deal of discretionary monitoring in order to provide both staff and customers with additional water quality information. We are pleased to report that the results from the monitoring conducted in 2020 met all standards for safe drinking water.

In most cases, the minimum detection level of a contaminant is well below the EPA regulatory limit for that contaminant. The table lists the contaminants that were detected in the required drinking water monitoring. To compare the detected amount with the highest level allowed by the EPA, refer to the Maximum Contaminant Level (MCL) column in the table. The vast majority of regulated contaminants were not detected in the drinking water delivered by Tucson Water and those non-detected results were not included in the table. For a complete list of all EPA regulated contaminants, contact the EPA at 1-800-426-4791 or visit the EPA website at www.epa.gov/sites/production/files/2016-06/documents/npwdr_complete_table.pdf.

WHY ARE THERE CONTAMINANTS IN MY DRINKING WATER?
All drinking water, including bottled water, may reasonably be expected to contain small traces of some contaminants. Tucson’s groundwater contains dissolved minerals and organic compounds, which have been leached from the soil, rock, sediments, and plant materials through which the water travels. One would expect to find beneficial minerals such as calcium and magnesium; harmless minerals such as chloride, bicarbonate, and sulfate; and metals such as iron, copper, arsenic, and lead, which may be either beneficial or harmless at low concentrations, but harmful at high concentrations. In addition to these naturally occurring contaminants, our groundwater may contain contaminants resulting from industrial or domestic activities. For this reason, water utilities must currently monitor for approximately 90 regulated and 31 unregulated contaminants.

The following language is required by the EPA to appear in this report, some of which may not be applicable to deep groundwater wells, the primary source of the Tucson Water supply:

Contaminants that may be present in source water can include:
- Microbial contaminants, such as viruses and bacteria, which may come from sewage, septic systems, agricultural livestock, and wildlife.
- Inorganic contaminants, such as salts and metals, which 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, which 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, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

To ensure that tap water is safe to drink, EPA regulations limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water that must provide the same protection for public health. Bottled water may come from either a surface water source or groundwater source and may be treated minimally or extensively. For information on the quality of your bottled water, contact the water bottling company.
EXPLANATION OF THE DATA PRESENTED IN THE DETECTED CONTAMINANTS TABLE:
Tucson Water routinely monitors for contaminants in your drinking water as specified in the National Primary Drinking Water Standards. Monitoring results for the period of January 1 to December 31, 2020, or from the most recent period, are included in the table. Certain contaminants are monitored less than once a year because the concentrations of these contaminants are not expected to vary significantly from year to year, or the system is not considered vulnerable to this type of contamination.

Detected Contaminants Table

<table>
<thead>
<tr>
<th>Contaminant</th>
<th>Sample Year</th>
<th>Maximum Result</th>
<th>Range</th>
<th>MCL</th>
<th>MCLG</th>
<th>Units</th>
<th>Major Sources of Contaminant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disinfection By-Products</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Trihalomethanes (TTHM)</td>
<td>2020</td>
<td>6.6</td>
<td>6.6</td>
<td>80</td>
<td>None</td>
<td>ppb</td>
<td>Byproduct of chlorination</td>
</tr>
<tr>
<td>Inorganics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arsenic</td>
<td>2019</td>
<td>4.4</td>
<td>4.1 – 4.4</td>
<td>10</td>
<td>0</td>
<td>ppb</td>
<td>Natural deposits, runoff</td>
</tr>
<tr>
<td>Barium</td>
<td>2019</td>
<td>0.15</td>
<td>0.10 – 0.15</td>
<td>2</td>
<td>2</td>
<td>ppm</td>
<td>Natural deposits, industrial use</td>
</tr>
<tr>
<td>Chromium (Total)</td>
<td>2019</td>
<td>2.9</td>
<td>2.2 – 2.9</td>
<td>100</td>
<td>100</td>
<td>ppm</td>
<td>Natural deposits, steel and pulp mills</td>
</tr>
<tr>
<td>Fluoride</td>
<td>2019</td>
<td>0.6</td>
<td>0.01 – 0.00</td>
<td>4</td>
<td>4</td>
<td>ppm</td>
<td>Natural deposits</td>
</tr>
<tr>
<td>Nitrate (as N)</td>
<td>2020</td>
<td>2.6</td>
<td>2.5 – 2.6</td>
<td>10</td>
<td>10</td>
<td>ppm</td>
<td>Natural deposits, septic tanks, agriculture, sewage</td>
</tr>
<tr>
<td>Selenium</td>
<td>2019</td>
<td>5.8</td>
<td>5 – 6.9</td>
<td>50</td>
<td>50</td>
<td>ppm</td>
<td>Discharge from petroleum, metal refineries, mines, erosion of natural deposits</td>
</tr>
<tr>
<td>Sodium</td>
<td>2019</td>
<td>58</td>
<td>37 – 58</td>
<td>None</td>
<td>None</td>
<td>ppm</td>
<td>Natural deposits</td>
</tr>
<tr>
<td>Radioactive Chemicals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gross Alpha Emitters</td>
<td>2019</td>
<td>5.2</td>
<td>4.6 – 5.2</td>
<td>15</td>
<td>0</td>
<td>gCi/L</td>
<td>Natural deposits</td>
</tr>
<tr>
<td>Disinfectants</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Year Sampled</td>
<td></td>
<td>Annual Average</td>
<td>Monthly Average Range</td>
<td>MRLD</td>
<td>MRLDG</td>
<td>Units</td>
<td>Major Sources of Contaminant</td>
</tr>
<tr>
<td>Chlorine</td>
<td>2020</td>
<td>0.98</td>
<td>0.76 – 1.15</td>
<td>4</td>
<td>4</td>
<td>ppm</td>
<td>Disinfection additive used to control microbes</td>
</tr>
</tbody>
</table>

Footnote: ≤ ND = Not detectable at reporting limit.

DETAILED INFORMATION ON DETECTED CONTAMINANTS:

Total Trihalomethanes (TTHMs) are formed when chlorine combines with naturally occurring organic material in water. Since the level of organic matter in our groundwater is extremely low, these compounds are found at very low concentrations. The compounds which make up the TTHMs include: bromodichloromethane, bromoform, chlorodibromomethane, and chloroform. Some people who drink TTHMs in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer. The maximum TTHMs detected in 2020 was 6.6 ppb (the MCL is 40 ppb).

Arsenic is a naturally occurring substance commonly found in groundwater in the southwestern United States. While your drinking water meets EPA’s standard for arsenic, it does contain low levels of arsenic. EPA’s standard balances the current understanding of arsenic’s possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic. Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system and may have an increased risk of getting cancer. The highest arsenic concentration detected during 2019 was 4.4 ppb (the MCL is 10 ppb).

Barium occurs naturally at very low concentrations in our groundwater. The highest barium value during 2019 was 0.15 parts per million (ppm) (the MCL is 2 ppm).

Chromium (Total) is found naturally in rocks, plants, soil and volcanic dust, and animals. The highest total chromium concentration detected during 2019 was 2.9 ppm (the MCL is 10 ppm).

Fluoride is an important naturally occurring mineral that helps form healthy teeth and bones. A concentration of 1 ppm is considered optimum. Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Fluoride in drinking water at half the MCL or more may cause mottling of children’s teeth, usually in children less than nine years old. Mottling, also known as dental fluorosis, may include brown staining and/or pitting of the teeth, and occurs only in developing teeth before they erupt from the gums. The highest concentration of fluoride detected during 2019 was 0.6 ppm (the MCL is 1 ppm).

Nitrate is a form of nitrogen and an important plant nutrient. Tucson Water performs more frequent monitoring of wells high in nitrate for extra assurance that action can be taken when approaching the MCL. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome. If you are caring for an infant, ask advice from your healthcare provider. The highest concentration for nitrate during 2020 was 2.6 ppm (the MCL is 10 ppm).

Selenium is an essential nutrient and a naturally occurring mineral. The highest selenium concentration during 2019 was 6.9 ppb (the MCL is 50 ppb).
The Maximum Monthly Average was 1.15 ppm (the MRDL is calculated using the monthly chlorine averages for the past 12 months). Chlorine Residual Disinfectant is added to the drinking water supply at well sites, reservoirs, and other facilities to provide assurance that water delivered to customers will remain free of microbiological contamination. This also ensures that the water meets microbiological drinking water standards from the time it is pumped from the ground until it reaches the customer’s tap. Some people who use water containing chlorine well in excess of the MCL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the Maximum Residual Disinfectant Limit (MRDL) could experience stomach discomfort or anemia. Chlorine Residual Disinfectant is water containing chlorine well in excess of the Maximum Residual Disinfectant Level (MRDL). It is defined as the quantity of radioactive material in one liter which produces 2.22 nuclear disintegrations per minute. It is measured in very small units. One ppb equals one microgram per liter. For example, one part per billion equals: 2 drops of water in a 15,000 gallon backyard swimming pool, one second of time in 31.7 years, or the first 16 inches of a trip to the moon. Some constituents in water are measured in very small units. One ppb equals one microgram per liter. For example, one part per billion equals: 2 drops of water in a 15,000 gallon backyard swimming pool, one second of time in 31.7 years, or the first 16 inches of a trip to the moon.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

While the Safe Drinking Water Act regulations are intended to protect consumers throughout their lifetime, some people may be more vulnerable to infections from drinking water than the general population. These “at-risk” populations include immunocompromised persons such as persons with cancer undergoing chemotherapy, people who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, and in some cases, elderly people, and infants. These people should seek advice about drinking water from the healthcare providers, 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 EPA’s Safe Drinking Water Hotline (1-800-426-4791).

As a Tucson Water customer, you have the right to know that this data is available. If you are interested in examining the results, please contact the Water Quality and Operations Division at (520) 791-5454.

WERE THERE ANY MONITORING FAILURES OR VIOLATIONS?

At the end of each quarter, Tucson Water conducts an internal audit of compliance monitoring records to verify that all required monitoring has been completed and reported to the State. During 2020, there were no reporting violations, health-based violations, or monitoring violations.

HOW IS OUR DRINKING WATER TREATED?

The groundwater delivered by Tucson Water meets all drinking water standards without treatment. However, approximately 1 ppm of chlorine is added to the drinking water supply at well sites, reservoirs, and other facilities to provide assurance that water delivered to customers will remain free of microbiological contamination. This also ensures that the water meets microbiological drinking water standards from the time it is pumped from the ground until it reaches the customer’s tap.

More information about contaminants and potential health effects can be obtained by calling EPA’s Safe Drinking Water Hotline 1-800-426-4791.
WHOM DO I CONTACT FOR MORE INFORMATION?

For more information, questions, comments on this Tucson Annual Water Quality report or on water quality topics in your neighborhood, please contact our water quality concerns team at (520) 791-5945 or email CustomerSupportUnit@tucsonaz.gov. Tucson Water’s Water Quality Information Net program provides timely information about the quality of tap water in your neighborhood at https://tucsonaz.gov/water/water-quality. Use this link to see water quality tests closest to your home or business using our Online Water Quality Map.

Tucson’s Mayor and Council set policy and direction for Tucson Water, including those policies that may impact water quality. Mayor and Council meetings are normally held every other Tuesday and are open to the public. Mayor and Council meeting schedule, agendas, and other opportunities for public comments are published at www.tucsonaz.gov/gov/meeting-schedules-and-agendas.

Tucson Water customers may leave a message for the Mayor and Council at (520) 791-4201.

To schedule a tour of Tucson Water’s Water Quality Laboratory or a speaker for your organization, contact the Public Information Office at (520) 791-4331 or email pico@tucsonaz.gov.

Tucson Water is committed to ensuring that our customers receive high quality water and excellent service in a safe, reliable, efficient, and environmentally responsible manner.

CONTACT INFORMATION:

Tucson Water Public Information Office (520) 791-4331
Tucson Water Quality & Operations Division (520) 791-2544
Tucson Water Customer Support Unit (520) 791-5945
Tucson Water Customer Service/Billing (520) 791-3242
Tucson Water 24-hour Emergency (520) 791-4133
EPA Safe Drinking Water Hotline 1-800-426-4791
EPA Website epa.gov/ground-water-and-drinking-water
Si usted desea este documento scrit en Español, por favor, llame al (520) 791-4331
City of Tucson TTY# (520) 791-2639