



CITY OF ROLLINGWOOD UTILITY COMMISSION AGENDA

Tuesday, June 07, 2022

Notice is hereby given that the Utility Commission of the City of Rollingwood, Texas will hold a meeting, open to the public, in the Municipal Building at 403 Nixon Drive in Rollingwood, Texas on June 07, 2022 at 7:00 PM. Members of the public and the Utility Commission may participate in the meeting virtually, as long as a quorum of the Utility Commission and the presiding officer are physically present at the Municipal Building, in accordance with the Texas Open Meetings Act. The public may watch this meeting live and have the opportunity to comment via audio devices at the link below. The public may also participate in this meeting by dialing one of the toll-free numbers below and entering the meeting ID and Passcode.

Link: <https://us02web.zoom.us/j/5307372193?pwd=QmNUbmZBQ1lwUjNjNmM5RnJreIRFUT09>

Toll-Free Numbers: (833) 548-0276 or (833) 548-0282

Meeting ID: 530 737 2193

Password: 9fryms

The public will be permitted to offer public comments via their audio devices when logged in to the meeting or telephonically by calling in as provided by the agenda and as permitted by the presiding officer during the meeting. If a member of the public is having difficulties accessing the public meeting, they can contact the city at awayman@rollingwoodtx.gov. Written questions or comments may be submitted up to two hours before the meeting. A video recording of the meeting will be made and will be posted to the City's website and available to the public in accordance with the Texas Public Information Act upon written request.

CALL UTILITY COMMISSION MEETING TO ORDER

1. Roll Call

PUBLIC COMMENTS

Citizens wishing to address the Utility Commission for items not on the agenda will be received at this time. Please limit comments to 3 minutes. In accordance with the Open Meetings Act, the Utility Commission is restricted from discussing or taking action on items not listed on the agenda.

Citizens who wish to address the Utility Commission with regard to matters on the agenda will be received at the time the item is considered.

CONSENT AGENDA

All Consent Agenda items listed are considered to be routine by the Utility Commission and may be enacted by one (1) motion. There will be no separate discussion of Consent Agenda items unless a Board Member has requested that the item be discussed, in which case the item will be removed from the Consent Agenda and considered in its normal sequence on the Regular Agenda.

2. Discussion and possible action on the minutes from the March 8, 2022 Utility Commission meeting

REGULAR AGENDA

3. Review of Utility Appeals Process and ordinance
4. Discussion regarding discovery of where issues exist with Cellular service in Rollingwood
5. Receipt of 2021 Consumer Confidence Report as prepared by Crossroads Utility Services

ADJOURNMENT OF MEETING

CERTIFICATION OF POSTING

I hereby certify that the above Notice of Meeting was posted on the bulletin board at the Rollingwood Municipal Building, in Rollingwood, Texas and to the City website at www.rollingwoodtx.gov on Thursday, June 2, 2022 at 5:00 p.m.



Desiree Adair, City Secretary

NOTICE -

The City of Rollingwood is committed to compliance with the Americans with Disabilities Act. Reasonable modifications and equal access to communications will be provided upon request. Please contact the City Secretary, at (512) 327-1838 for information. Hearing-impaired or speech-disabled persons equipped with telecommunication devices for the deaf may call (512) 272-9116 or may utilize the stateside Relay Texas Program at 1-800-735-2988.

The Utility Commission will announce that it will go into executive session, if necessary, to deliberate any matter listed on this agenda for which an exception to open meetings requirements permits such closed deliberation, including but not limited to consultation with the city's attorney(s) pursuant to Texas Local Government Code section 551.071, as announced at the time of the closed session.

Consultation with legal counsel pursuant to section 551.071 of the Texas Local Government Code;
discussion of personnel matters pursuant to section 551.074 of the Texas Local Government Code;
real estate acquisition pursuant to section 551.072 of the Texas Local Government Code;
prospective gifts pursuant to section 551.073 of the Texas Local Government Code;
security personnel and device pursuant to section 551.076 of the Texas Local Government Code;
and/or economic development pursuant to section 551.087 of the Texas Local Government Code.
Action, if any, will be taken in open session.



CITY OF ROLLINGWOOD UTILITY COMMISSION MINUTES

Tuesday, March 08, 2022

The Utility Commission of the City of Rollingwood, Texas held a regular meeting, open to the public, in the Municipal Building at 403 Nixon Drive in Rollingwood, Texas on Tuesday, March 8, 2022 at 7:00 p.m. Members of the public and the commission were permitted to participate in the meeting virtually, as long as a quorum of the commission and the presiding officer were physically present at the Municipal Building, in accordance with the Texas Open Meetings Act. The public was permitted watch this meeting live and have the opportunity to comment via audio devices at the link below. The public was also permitted to participate in this meeting by dialing one of the toll-free numbers below and entering the meeting ID and Passcode.

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Toll-Free Numbers: (833) 548-0276 or (833) 548-0282

Meeting ID: 530 737 2193

Password: 9fryms

A video recording of the meeting was made and was posted to the City's website and is available to the public in accordance with the Texas Public Information Act upon written request.

CALL UTILITY COMMISSION MEETING TO ORDER

1. Roll Call

Chair Jonathan Miller called the meeting to order at 7:00 p.m.

Present Members: Chair Jonathan Miller, Elizabeth Bray, Ronald Hasso, Sam Attal, Jonathan Miller, Clark Wilson, Christopher Meakin and Chris Kirksey.

Also Present: Council Member Phil McDuffee, Mayor Gavin Massingill, Interim City Administrator Ashley Wayman, Utility Billing Manager Sharon Davis and Assistant to the City Administrator Makayla Rodriguez

PUBLIC COMMENTS

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Citizens who wish to address the Utility Commission with regard to matters on the agenda will be received at the time the item is considered.

2. Public Comments

The following individuals spoke during public comments:

- Mayor Gavin Massingill introduced himself and the city's newest employee, Makayla Rodriguez, to the Commission. He discussed the events of the last year in regards to utility billing, the water Capital Improvement Plan, the transition to in-house utility billing, and work being done with Crossroads Utility Services.

CONSENT AGENDA

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3. Discussion and possible action on the minutes from the February 1, 2022 Utility Commission meeting

Chris Meakin moved to approve the consent agenda. Chris Kirksey seconded the motion. The motion passed 7-0.

REGULAR AGENDA

4. Discussion and possible action on a utility bill appeal for 2601 Pickwick Lane

Robert Turner, 2601 Pickwick Lane, introduced himself and discussed his utility bill appeal. He asked the Commission to recognize that there was a blip in the system and either charge him at his 8-year average for September or to charge him in the lower tier for his water.

The Commission and Robert Turner discussed his appeal request and his historical usage.

Utility Billing Manager Sharon Davis and the Commission discussed the adjustment amount that would normally be made. The Commission discussed their remedy to the situation, in which wholesale rate plus 10% would be charged.

The Commission discussed the requirements of the bill appeal process.

Chris Meakin moved to charge wholesale rate plus 10% for the usage. Sam Attal seconded the motion. The motion passed 7-0.

Interim City Administrator Ashley Wayman discussed that staff would bring back information regarding the appeals process to be reviewed at the next meeting.

5. Discussion and possible action regarding cellular and internet service in the City of Rollingwood

Chair Jonathan Miller discussed that this and the remaining items are items that may be of interest to the Commission to talk about now or at a future meeting.

The Commission and Council Member Phil McDuffee discussed cellular service issues and what options the city has explored to correct those issues.

Sam Attal discussed that it would be a good idea to see how widespread the cellular service issues are by sending a questionnaire to the community.

Elizabeth Bray discussed her personal issues with T-Mobile and the Commission further discussed the different options to increase the service in the city.

The Commission and Council Member Phil McDuffee further discussed a potential survey to the community and the potential option of a cellular tower in the future.

Sam Attal moved to make a recommendation to the City Council to provide to the community a brief questionnaire on the quality of their cellular service and see what comes in. Clark Wilson seconded the motion. The motion passed 7-0.

6. Discussion and possible action regarding tree trimming around power lines

Chair Jonathan Miller discussed that this issue continues to be a work in progress.

Interim City Administrator Ashley Wayman discussed the franchise agreement with Austin Energy and the discussion that will be taking place at the next City Council meeting.

The Commission and Interim City Administrator Ashley Wayman discussed specific instances of tree trimming issues that they have seen in the community.

Sam Attal discussed issues the he been made aware of regarding cable carriers having difficulties connecting to the city's cable lines.

The Commission discussed the city's cable lines and fiber optic service.

7. Discussion and possible action regarding the relocation of service lines and water meters

Interim City Administrator Ashley Wayman discussed that the city is working on its water line abandonment plan, and is particularly interested abandoning backyard water lines and locating all water meters it the front yards. She discussed that the City Council will be discussing a potential future ordinance to require lines and meters to be relocated when a house is demolished. She also explained the status of the electronic water meters and that the city is in the process of hiring a public works superintendent that will be instrumental in organizing the electronic water meter roll-out.

The Commission and Interim City Administrator Ashley Wayman discussed the impact of inflation on the city's costs of replacing lines.

8. Discussion regarding future agenda items and topics for consideration by the Utility Commission

Chair Jonathan Miller discussed that this item is to discuss future items of interest for the Commission and that items could be brought up to him or Interim City Administrator Ashley Wayman for placement on a future agenda.

Chris Meakin discussed budgeting for water and wastewater rate studies in the future.

Elizabeth Bray asked if the city has reached out to Google Fiber and the Commission discussed that they thought that there would be no further expansion of Google Fiber.

Elizabeth Bray asked what the Utility Commission's role would be in addressing the city's needed infrastructure issues and Chair Jonathan Miller discussed that the City Council would be sending projects to the Commission as they find things that they can help with.

Elizabeth Bray discussed the city's water quality reports and concerns about the quality of water and that we are due for another water quality report in the coming months. She also discussed the EPA guidelines vs. what the City of Austin does.

Chair Jonathan Miller asked that when the next water quality report is available that it be brought to the Commission for discussion.

ADJOURNMENT OF MEETING

The meeting was adjourned at 7:52 p.m.

Minutes Adopted on the _____ day of _____, 2022.

Jonathan Miller, Chair

ATTEST:

Ashley Wayman, Interim City Administrator



Rollingwood Utility Customer Appeals Process Summary

Rollingwood Utility customers may appeal to have their water and related wastewater bill reduced. City Ordinance 2012-11-07 governs the appeals process. This ordinance also specifies the process for termination of service for delinquent accounts. During the appeals process, that portion of the bill under appeal is not considered delinquent, however, all uncontested portions of the account must be paid and kept current.

Customers should be aware that the City is responsible for equipment malfunctions up to the point where the water meter is attached to the customer's supply line. The customer is responsible for leaks in plumbing and other equipment beyond this point. However, City Utility Staff may be able to assist customers in determining whether or not high water consumption is due to a leak. Customers are advised to consult with City Staff prior to a formal appeal, if a leak is suspected.

Appeals Process

The City Council designates the City of Rollingwood Utility Commission as the Hearing Officer for the purposes of Utility Appeals.

Appeals should be filed as soon as possible, but no later than six (6) months after issuance of the first contested utility bill. Adjustments of bills for periods exceeding three (3) months will not be considered except in extraordinary circumstances, as determined at the sole discretion of the City. Reasonable causes for appeals include:

1. Errors in meter reading
2. Water meter inaccuracy or other malfunctions (such as a leak within the meter, or a leak at the point where the meter attaches to the customer's line)
3. Errors in calculation of the bill
4. Excessive water use due to confirmed leaks in the customer's plumbing and other equipment. Appeals for partial reduction of the bill may be considered by City Staff, providing that the customer provides reasonable evidence that the leak has been repaired. Volume charges for excess water usage may be reduced to the actual per-gallon costs to the City, plus an administrative fee, not to exceed 10%. A reduction in wastewater charges may also be allowed, if inaccuracies occur during the winter averaging months.

Excess water usage is typically estimated by determining the average water usage over the past three, two, or one year(s) for the same month(s), depending on the number of years' history available. The excess water usage is the difference between this average and the contested water usage. If there are fewer than 12 months' history available, City Staff is

authorized to hold on determining the average water usage until a year of historical usage is available to provide information to make the determination as provided above.

If informal discussion with City Staff does not resolve an issue, then the appeals process as outlined in the ordinance is the following: A written appeal is prepared by the customer and submitted to the City Secretary. The appeal is formally addressed to the City Council, but will be considered in the following steps:

1. The Utilities Director will evaluate the appeal and may recommend reducing the bill as requested, reducing it partially, or rejecting the appeal. The customer may choose to end the process at this point.
2. A customer not satisfied with the decision of the Utilities Director, may request further consideration and, if so, the appeal will be referred to the Utility Commission, who will act as Hearing Officer for rendition of a final decision. The Commission will conduct a hearing at its first meeting following the referral, for which adequate notice can be provided as required by the code.



Rollingwood Utility Department

Leak Adjustment Request Form

Name on Account: _____

Service Address: _____

Account Number: _____

Phone Number: _____

Email Address: _____

Total Contested Amount: _____

Description:

Consumption Months for which an adjustment is being requested: _____

☐ Seeking adjustment to Winter Average? (Months of November through March)

Date of Repair: _____

Explanation of Repair: _____

☐ Proof of repair attached

Note: if there is no proof of leak and subsequent repair, an Appeal for a bill adjustment will have to be made to the Utility Commission.

Discussion regarding discovery of where issues exist with Cellular service in Rollingwood.

This may include a survey to Rollingwood homeowners and constituents in our commercial corridor.

Items may include but are not limited to the following information:

- Service provider
- Address
- Other areas where service is of issue
- Circumstances when issues occur (driving, walking in neighborhood, etc)

How best to gather information and feedback.

2021 Annual Drinking Water Quality Report

(Consumer Confidence Report)

CITY OF ROLLINGWOOD

Phone No. (512) 246-1400

Special Notice for the ELDERLY, INFANTS, CANCER PATIENTS, people with HIV/AIDS or other immune problems:

Some people may be more vulnerable to contaminants in drinking water, such as *Cryptosporidium*, 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. The EPA/Centers for Disease Control and Prevention (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).

Public Participation Opportunities

Please call (512) 327-1838 to confirm meeting dates and times. The City Council generally meets on the third Wednesday of each month at 7:00pm p.m. at 403 Nixon Drive, Rollingwood, Texas.

The City's water system is operated by Crossroads Utility Services, LLC. If you have any questions concerning water quality or the source of your water, please call (512) 246-1400 or (512) 246-5905.

Our Drinking Water Meets or Exceeds All Federal (EPA) Drinking Water Requirements

This report is a summary of the quality of the water we provide our customers. The analysis was made by using the data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented in the attached pages. We hope this information helps you become more knowledgeable about what's in your drinking water.

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 before treatment include: microbes, inorganic contaminants, pesticides, herbicides, radioactive contaminants, and organic chemical contaminants.

En Español

Este informe incluye informacion importante sobre el agua potable. Si tiene preguntas o comentarios sobre este informe en español favor de llamar al tel. (512) 246-1400 para hablar con una persona bilingue en español.

Where do we get our drinking water?

Your drinking water is supplied by the City of Austin (City). The City draws and treats surface water from Lake Austin and Lake Travis. TCEQ completed an assessment of our source water and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for our water system are based on this susceptibility and previous sample data. Any detection of these contaminants will be found in this report. If we receive or purchase water from another system, their susceptibility is not included in this assessment. For more information on source water assessments and protection efforts at our system, please contact us.

ALL drinking water may contain contaminants.

When drinking water meets federal standards there may not be any health based benefits to purchasing bottled water or point of use devices. 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 EPA's Safe Drinking Water Hotline (1-800-426-4791).

Secondary Constituents

Many constituents (such as calcium, sodium, or iron) which are often found in drinking water can cause taste, color, and odor problems. The taste and odor constituents are called secondary constituents and are regulated by the State of Texas, not the EPA. These constituents are not causes for health concerns. Therefore, secondaries are not required to be reported in this document but they may greatly affect the appearance and taste of your water.

About the Following Pages

The pages that follow list all of the federally regulated or monitored contaminants which have been found in your drinking water. The U.S. EPA requires water systems to test for up to 97 contaminants.

DEFINITIONS

Maximum Contaminant Level (MCL)

The highest permissible level of a contaminant in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG)

The level of a contaminant in drinking water below which there is no known or expected health risk. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL)

The highest level of 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 contamination.

Treatment Technique (TT)

A required process intended to reduce the level of a contaminant in drinking water.

Action Level (AL)

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

ABBREVIATIONS

NTU – Nephelometric Turbidity Units

MFL – million fibers per liter (a measure of asbestos)

pCi/L – picocuries per liter (a measure of radioactivity)

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

ppq – parts per quadrillion, or picograms per liter

Inorganic Contaminants

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5.

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Source of Contaminant
2020 (COA)	Arsenic (ppb)	<0.002	<0.002	<0.002	10	0	Erosion of natural deposits.
2021	Asbestos (MFL)	0.197	0.197	0.197	7	7	Decay of asbestos cement in water mains; erosion of natural deposits.
2021	Barium (ppm)	0.011	0.010	0.013	2	2	Discharge of drilling wastes; discharge from metal refineries.; erosion of natural deposits.
2017	Chromium (ppb)	<0.01	<0.01	<0.01	100	0	Erosion of natural deposits.
2021	Cyanide (ppb)	70	10	110	200	200	Discharge from manufacturing.
2021	Fluoride (ppm)	0.75	0.65	0.90	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
2021	Nitrate* (ppm)	0.08	0.07	0.09	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
2021	Nitrite (ppm)	0.18	0.18	0.18	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
2021	Nitrate-Nitrite* (ppm)	0.3	0.3	0.3	10	10	Runoff from fertilizer use; leaching from septic tanks; erosion of natural deposits.
2017	Radium-228 (pCi/L)	<1	<1	<1	5	0	Erosion of natural deposits.

*Nitrate in drinking water at levels above 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. If you are caring for an infant you should ask advice from your health care provider.

Organic Contaminants

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Source of Contaminant
2021 (COA)	Diquat (ppb)	<0.4	<0.4	<0.4	20	20	Herbicide runoff.
2021 (COA)	Simazene (ppb)	<0.07	<0.07	<0.07	4	4	Herbicide runoff.

Volatile Organic Contaminants

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Source of Contaminant
2021 (COA)	Vinyl Chloride (ppb)	<0.5	<0.5	<0.5	2	2	Leaching from PVC piping; Discharge of plastic factories

Maximum Residual Disinfectant Level

Year	Disinfectant	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Source of Disinfectant
2021	Chloramines (ppm)	2.49	1.1	3.4	4.0	<4.0	Disinfectant used to control microbes

Disinfection Byproducts

Year	Contaminant	LR Annual Average	Minimum Level	Maximum Level	MCL	Unit of Measure	Source of Contaminant
2021	Total Haloacetic Acids	10.08	9.2	10.9	60	ppb	Byproduct of drinking water disinfection.
2021	Total Trihalomethanes	33.53	25.9	42.3	80	ppb	Byproduct of drinking water disinfection.

Unregulated Contaminants

Bromoform, chloroform, dichlorobromomethane, and dibromochloromethane are disinfection byproducts. There is no maximum contaminant level for these chemicals at the entry point to distribution.

Year	Contaminant	Average Level	Minimum Level	Maximum Level	Unit of Measure	Source of Contaminant
2021	Chloroform	8.85	6.5	13.0	ppb	Byproduct of drinking water disinfection.
2021	Bromoform	1.7	1.3	2.3	ppb	Byproduct of drinking water disinfection.
2021	Bromodichloromethane	11.87	9.4	15.6	ppb	Byproduct of drinking water disinfection.

2021	Dibromochloromethane	11.02	8.3	15.7	ppb	Byproduct of drinking water disinfection.
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Lead and Copper

Year	Contaminant	The 90 th Percentile	Number of Sites Exceeding Action Level	Action Level	Unit of Measure	Source of Contaminant
2019	Lead	<0.001	0	15	ppb	Corrosion of household plumbing systems; erosion of natural deposits.
2019	Copper	0.02	0	1.3	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.

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. This water supply is responsible for providing high quality drinking water, but cannot control the variety of material used 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>."

Turbidity

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.						
Year	Contaminant	Highest Single Measurement	Lowest Monthly % of Samples Meeting Limits	Turbidity Limits	Source of Contaminant	
2021	Turbidity (NTU)	0.23	100%	0.3	Soil runoff.	

2021 **Total Coliform** REPORTED MONTHLY TESTS FOUND NO COLIFORM BACTERIA.

2021 **Fecal Coliform** REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA

Secondary and Other Constituents Not Regulated (No associated adverse health effects)

Year	Contaminant	Average Level	Minimum Level	Maximum Level	Limit	Source of Contaminant
2021 (COA)	Aluminum (ppm)	<0.02	<0.02	<0.02	0.2	Abundant naturally occurring element.
2021 (COA)	Bicarbonate (ppm)	24.3	<10	36	NA	Corrosion of carbonate rocks such as limestone.
2021 (COA)	Carbonate (ppm)	17.96	<10	23	NA	Corrosion of carbonate rocks such as limestone.
2021 (COA)	Calcium (ppm)	11.73	11.4	12.37	NA	Abundant naturally occurring element.
2021 (COA)	Chloride (ppm)	43.33	39	48	300	Abundant naturally occurring element; used in water purification; byproduct of oil field activity.
2012	pH (units)	9.25	9.2	9.3	7	Measure of corrosivity of water.
2021 (COA)	Sodium (ppm)	24.4	20.6	28	NA	Erosion of natural deposits; byproduct of oil field activity.
2021 (COA)	Sulfate (ppm)	30	29	31	300	Naturally occurring; common industrial byproduct; byproduct of oil field activity.
2021 (COA)	Total Alkalinity as CaCO ₃ (ppm)	163.41	152	181	NA	Naturally occurring soluble mineral salts.
2021 (COA)	Total Dissolved Solids (ppm)	183.33	159	202	1000	Total dissolved mineral constituents in water.
2021 (COA)	Total Hardness as CaCO ₃ (ppm)	88.73	85.3	93.4	NA	Naturally occurring calcium.

P.W.S. #2270016