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6/30/22
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2021 CERTIFICATION
Consumer Confidence Report (CCR)

City of Leland

PRINT Public Water System Name

0760006

List PWS ID #s for all Community Water Systems included in this CCR

CCR DISTRIBUTION (Check all boxes that apply)	
INDIRECT DELIVERY METHODS (Attach copy of publication, water bill or other)	DATE ISSUED
<input type="checkbox"/> Advertisement in local paper (Attach copy of advertisement)	
<input type="checkbox"/> On water bill (Attach copy of bill)	
<input type="checkbox"/> Email message (Email the message to the address below)	
<input type="checkbox"/> Other (Describe: _____)	
DIRECT DELIVERY METHOD (Attach copy of publication, water bill or other)	DATE ISSUED
<input type="checkbox"/> Distributed via U.S. Postal Service	
<input type="checkbox"/> Distributed via E-mail as a URL (Provide direct URL): _____	
<input type="checkbox"/> Distributed via Email as an attachment	
<input type="checkbox"/> Distributed via Email as text within the body of email message	
<input checked="" type="checkbox"/> Published in local newspaper (attach copy of published CCR or proof of publication)	<i>June 9, 2022</i> <i>June 16, 2022</i>
<input checked="" type="checkbox"/> Posted in public places (attach list of locations or list here) _____	<i>June 14, 2022</i>
<input type="checkbox"/> Posted online at the following address (Provide direct URL): _____	
CERTIFICATION	
I hereby certify that the Consumer Confidence Report (CCR) has been prepared and distributed to its customers in accordance with the appropriate distribution method(s) based on population served. Furthermore, I certify that the information contained in the report is correct and consistent with the water quality monitoring data for sampling performed and fulfills all CCR requirements of the Code of Federal Regulations (CFR) Title 40, Part 141.151 - 155.	
<i>[Signature]</i> Name	<i>Deputy Clerk</i> Title
	<i>6/30/22</i> Date
SUBMISSION OPTIONS (Select one method ONLY)	
You must email or mail a copy of the CCR, Certification, and associated proof of delivery method(s) to the MSDH, Bureau of Public Water Supply.	
Mail: (U.S. Postal Service) MSDH, Bureau of Public Water Supply P.O. Box 1700 Jackson, MS 39215	Email: water.reports@msdh.ms.gov

2021 Annual Drinking Water Quality Report
 City of Leland
 PWS#: 0760006
 April 2022

RECEIVED
 MSDH-WATER SUPPLY
 2022 JUN 20 AM 8:01

We're pleased to present to you this year's Annual Quality Water Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our water source is from wells drawing from the Cockfield Formation Aquifer.

The source water assessment has been completed for our public water system to determine the overall susceptibility of its drinking water supply to identify potential sources of contamination. A report containing detailed information on how the susceptibility determinations were made has been furnished to our public water system and is available for viewing upon request. The wells for the City of Leland have received lower to moderate susceptibility rankings to contamination.

If you have any questions about this report or concerning your water utility, please contact Kenny Thomas at 662.686.4136. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the first Tuesday of each month at 5:00 PM at the City Hall.

We routinely monitor for contaminants in your drinking water according to Federal and State laws. This table below lists all of the drinking water contaminants that were detected during the period of January 1st to December 31st, 2021. In cases where monitoring wasn't required in 2021, the table reflects the most recent results. As water travels over the surface of land or underground, it dissolves naturally occurring minerals and, in some cases, radioactive materials and can pick up substances or contaminants from the presence of animals or from human activity; 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, 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 and septic systems; radioactive contaminants, which 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, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It's important to remember that the presence of these contaminants does not necessarily indicate that the water poses a health risk.

In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

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

Maximum Contaminant Level (MCL) - The "Maximum Allowed" (MCL) is 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 (MCLG) - The "Goal"(MCLG) is 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 (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary to control microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk of health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

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

Parts per billion (ppb) or Micrograms per liter - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

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

TEST RESULTS								
Contaminant	Violation Y/N	Date Collected	Level Detected	Range of Detects or # of Samples Exceeding MCL/ACL	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Inorganic Contaminants								
8. Arsenic	N	2019*	.7	.6 - .7	ppb	n/a	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
10. Barium	N	2019*	.1373	.0083 - .1373	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	N	2019*	.9	No Range	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits

14. Copper	N	2017/19*	.1	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride**	N	2019*	.543	.3 - .543	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2017/19*	1	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Sodium	N	2019*	200000	No Range	ppb	0	0	Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.

Disinfection By-Products

81. HAA5	N	2020*	11	No Range	ppb	0	60	By-Product of drinking water disinfection.
82. TTHM [Total trihalomethanes]	N	2021	10.8	No Range	ppb	0	80	By-product of drinking water chlorination.
Chlorine	Y	2021	.7	.4 – 2.34	mg/l	0	MRDL = 4	Water additive used to control microbes

* Most recent sample. No sample required for 2021. ** Fluoride level is routinely adjusted to the MS State Dept of Health's recommended level of 0.6 - 1.2 mg/l.

Disinfection By-Products:

Chlorine. Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.

We are required to monitor your drinking water for specific contaminants on a monthly basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During April 2021, we did not collect the required number of samples for Chlorine. We were required to collect 5 and only collected 4. We have since taken the required samples that show we are meeting drinking water standards.

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. Our water system 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 <http://www.epa.gov/safewater/lead>. The Mississippi State Department of Health Public Health Laboratory offers lead testing. Please contact 601.576.7582 if you wish to have your water tested.

Significant Deficiencies

Monitoring and Reporting of Compliance Data Violations:

During a sanitary survey conducted on 4/19/2021, the Mississippi State Department of Health cited the following significant deficiency(s):

Cross Connection Control

Corrective Actions: The system is scheduled to complete corrective actions by 9/16/2021 using a compliance plan or are within the initial 120 days minimum. Our system has failed to meet the compliance deadline and is now in enforcement status and must appear before MSDH Enforcement and the state appointed Hearing Officer.

To comply with the "Regulation Governing Fluoridation of Community Water Supplies", the CITY OF LELAND is required to report certain results pertaining to fluoridation of our water system. The number of months in the previous calendar year in which average fluoride sample results were within the optimal range of 0.6-1.2 ppm was 0. The percentage of fluoride samples collected in the previous calendar year that was within the optimal range of 0.6-1.2 ppm was 0%.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man made. These substances can be microbes, inorganic or organic chemicals and radioactive substances. All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1.800.426.4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/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.

The City of Leland works around the clock to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future. Notice: This (Consumer Confidence) report will not be mailed to each customer.

**CCR REPORT
POSTING LOCATION**

CITY HALL

**206 N BROAD ST
LELAND, MS 38756**

LELAND LIGHT & WATER DEPARTMENT

**101 N W DEER CREEK DR
LELAND MS 38756**

STATE OF MISSISSIPPI

COUNTY OF WASHINGTON

Personally appeared before me, the undersigned Notary Public, Stephanie D. Patton, Editor and Publisher of The Leland Progress, LLC, a newspaper qualified to carry legal notices printed and published in the City of Leland, said State and County, and having a general circulation therein, who makes oath that a certain legal notice, of which a true copy clipped from The Leland Progress, LLC 2 consecutive times on the days and dates as follows, to-wit:

Thursday, the 9 day of June, 2022

Thursday, the 16 day of June, 2022

Thursday, the _____ day of _____, _____

Thursday, the _____ day of _____, _____

Thursday, the _____ day of _____, _____

Stephanie Patton

Editor & Publisher
The Leland Progress, LLC

Sworn to before me, this 22nd day of June, 2022

Karina S. Pratt
Notary Public

My commission expires October 23, 2023

Fee for publishing and making proofs: \$ _____

Type of Legal Notice/Name: _____

Attorney: _____



2021 Annual Drinking Water Quality Report
City of Leeland
PWS# 6780006
April 2022

It is essential to provide you this year's Annual Quality Water Report. This report is designed to inform you about the quality of water and services you receive from the City of Leeland. Our primary goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the different ways to control water quality and protect the water resources. We are committed to providing the quality of your water. Our water supply is from wells drilled from the Coastal Aquifer.

The annual water quality report is prepared for your public water system to determine the overall compliance of its drinking water supply. The annual water quality report is prepared for your public water system to determine the overall compliance of its drinking water supply. The annual water quality report is prepared for your public water system to determine the overall compliance of its drinking water supply.

If you have any questions about this report or contacting your water utility, please contact Jerry Thomas at 882.695.4124. We want our customers to be informed and have access to water quality information. If you need to learn more, please attend any of our regularly scheduled meetings. They are held at the City of Leeland at 1000 1st St. SW, Leeland, MN.

This report is prepared for your public water system to determine the overall compliance of its drinking water supply. The annual water quality report is prepared for your public water system to determine the overall compliance of its drinking water supply. The annual water quality report is prepared for your public water system to determine the overall compliance of its drinking water supply.

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As a public water system, we are required to monitor the quality of the water we supply. The table below lists all of the drinking water quality parameters that we monitor. As listed, these are the number of samples collected. It does not indicate if a parameter naturally occurred, if it was detected, if it was not detected, or if it was detected but not reported. You may have some concerns about water quality. We want to help you understand the different ways to control water quality and protect the water resources.

Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set at twice the MCLG for chemicals using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) - The "Goal" (MCLG) is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set for a margin of safety.

Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary to control microbial contaminants.

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Parts per billion (ppb) or Micrograms per liter (µg/L) - one part per billion corresponds to one micro in 1,000 parts or a single penny in \$10,000,000.

Picoles per liter (p/L) - picogram per liter is a measure of the radioactivity in water.

TEST RESULTS

Contaminant	Violation	Date Collected	Level Detected	Range of Detected Levels (MCL/MCLG)	Unit Measure	MCLG	MCL	Likely Source of Contamination
Inorganic Contaminants								
9. Arsenic	N	2019	0.03	0.03 - 0.03	ppb	0.05	10	Corrosion of natural deposits, runoff from agricultural operations, private wells, and leachate from landfills
10. Cadmium	N	2019	0.002	0.002 - 0.002	ppb	0.01	5	Discharge of effluent from industrial operations, runoff from agricultural operations, and leachate from landfills
16. Chloride	N	2019	0	No Range	ppb	100	100	Discharge of effluent from industrial operations, runoff from agricultural operations, and leachate from landfills
14. Copper	N	2017/19	0	0 - 0	ppb	1.3	1.3	Corrosion of household plumbing systems, erosion of natural deposits, and leachate from landfills
18. Fluoride	N	2019	543	543 - 543	ppm	2.4	4	Erosion of natural deposits, water supply which is naturally high, discharge from residential and commercial facilities
17. Lead	N	2017/19	0	0 - 0	ppb	0	1.5	Corrosion of household plumbing systems, erosion of natural deposits
20. Nitrate	N	2019	200000	No Range	ppb	0	0	Run-off from agricultural operations, septic systems, and animal manure
Disinfection By-Products								
15.1. THM5	N	2022	11	No Range	ppb	0	50	By-product of drinking water disinfection
15.2. Haloacetic Acids (HAA5)	N	2022	10.8	No Range	ppb	0	30	By-product of drinking water disinfection
15.3. Haloacetonitriles	N	2022	0.54	No Range	ppb	0	10	By-product of drinking water disinfection

Public water systems are required to monitor for 2019. The number of samples collected is listed in the table. The number of samples collected is listed in the table. The number of samples collected is listed in the table.

We are required to monitor your drinking water for specific contaminants on a monthly basis. Results of regular monitoring are an indicator of safety or not for your drinking water. During April 2021, we did not collect the required number of samples for Chloride. We were required to collect 8 and only collected 4. We have since taken the required samples that show we are meeting drinking water standards.

It is essential to provide you this year's Annual Quality Water Report. This report is designed to inform you about the quality of water and services you receive from the City of Leeland. Our primary goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the different ways to control water quality and protect the water resources. We are committed to providing the quality of your water. Our water supply is from wells drilled from the Coastal Aquifer.

Significant Deficiencies
Including and Remedy of Compliance Data Violations
During 4 monitoring events conducted on 4/18/2021, the Minnesota state Department of Health listed the following significant deficiency:
Code Correction (C101)

Code Correction (C101)
The system is scheduled to complete corrective actions by 5/15/2021 using a compliance plan of one within the initial 120-day minimum. The system has failed to meet the compliance deadline and if new or additional violations occur within the 120-day minimum, the system may be placed on a public hearing order.

To comply with the "Regulation Governing Fluoridation of Community Water Supplies", the CITY OF LEELEND is required to report obtain results pertaining to fluoridation of its water system. The number of people in the previous calendar year in which average fluoride sample was below the optimal range of 0.6-1.2 ppm was 0. The percentage of fluoride samples collected in the previous calendar year that was within the optimal range of 0.6-1.2 ppm was 0%.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man-made. These substances can be microbes, inorganic or organic chemicals and radioactive substances. All drinking water, including bottled water, may reasonably be expected to contain certain levels of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1.800.426.8161.

Some people may be more susceptible to contaminants in drinking water than the general population. Infants- and pregnant persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some kidney and liver can be particularly at risk from infection. These people should seek advice about drinking water from their health care providers. EPA/CDC guideline on appropriate means to lessen the risk of infection by cryoprotectant and other microbiological contaminants are available from the Safe Drinking Water Hotline: 1.800.426.8161.

The City of Leeland works around the clock to provide top quality water to every tap. We insist that all our customers help us protect our water resources, which are the heart of our community, our way of life and our children's future. Notice This Consumer Disclosure Report will not be mailed to each customer.