

# DESOTO PARISH WATER WORKS DISTRICT 1

Public Water Supply ID: LA1031030

## Consumer Confidence Report

# 2024 CCR

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**Additional Information and Electronic Copies can be found at  
[www.ldh.la.gov/ccr](http://www.ldh.la.gov/ccr)**

What you need to do:

Review base report (numbered pages) for errors. If you are a surface water system, you must insert the turbidity data.

Distribute completed report to your customers as outlined on the CCR Certification of Distribution Form no later than June 30, 2025.

A completed CCR Certification of Distribution Form including a copy of the final CCR report shall be submitted to the State at the address provided on the form no later than September 30, 2025.

**If submitting CCR Electronically by posting on a website, be aware of LAC 51:XII.403.C – Community water systems shall include their final letter grade and score in their annual Consumer Confidence Report (a.k.a. Annual Water Quality Report) that is posted on the water system website. A statement like below must be added to the CCR notifying consumers of the water system grade.**

Our water system grade is a “fill in grade here”. Our water system report card can be found at “insert water system website link”.

**UCMR5-Water systems are required to distribute results for the unregulated contaminant monitoring rule (UCMR). If you have collected samples and received results, you may insert that data into the CCR to satisfy the notification requirement. The average of all results and the range of results at with the contaminant was detected.**

**Notes:**

This page is not part of your CCR; it is only the instruction page. The pages that are numbered in the upper right hand corner are the report pages.

# The Water We Drink

## DESOTO PARISH WATER WORKS DISTRICT 1

Public Water Supply ID: LA1031030

We are pleased to present to you the Annual Water Quality Report for the year 2024. This report is designed to inform you about the quality of your water and services we deliver to you every day (Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien). 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(s) are listed below:

Source Name	Source Water Type
RAW WATER INTAKE	Surface water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of 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 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 by-products 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.

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. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health. We want our valued customers to be informed about their water utility. If you have any questions about this report, want to attend any scheduled meetings, or simply want to learn more about your drinking water, please contact DAVID RYALS at 318-872-0004.

There is no safe level of lead in drinking water. Exposure to lead in drinking water can cause serious health effects in all age groups, especially pregnant people, infants (both formula-fed and breastfed), and young children. Some of the health effects to infants and children include decreases in IQ and attention span. Lead exposure can also result in new or worsened learning and behavior problems. The children of persons who are exposed to lead before or during pregnancy may be at increased risk of these harmful health effects. Adults have increased risks of heart disease, high blood pressure, kidney or nervous system problems. Contact your health care provider for more information about your risks.

The Louisiana Department of Health and Hospitals - Office of Public Health routinely monitors for constituents in your drinking water according to Federal and State laws. The tables that follow show the results of our monitoring during the period of January 1st to December 31st, 2024. 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.

In the tables below, 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:

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 (ug/L) – 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.

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

Treatment Technique (TT) – an enforceable procedure or level of technological performance which public water systems must follow to ensure control of a contaminant.

Action level (AL) – the concentration of a contaminant that, if exceeded, triggers treatment or other requirements that 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. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

Maximum contaminant level goal (MCLG) – the “Goal” is the level of a contaminant in drinking water below which there is no known or expected risk to human health. MCLG's 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 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 contaminants.

Level 1 assessment – 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 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.

Our water system tested a minimum of 9 sample(s) per month in accordance with the Total Coliform Rule for microbiological contaminants. With the microbiological samples collected, the water system collects disinfectant residuals to ensure control of microbial growth.

Disinfectant	Date	HighestRAA	Unit	Range	MRDL	MRDLG	Typical Source
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In the tables below, we have shown the regulated contaminants that were detected. Chemical Sampling of our drinking water may not be required on an annual basis; therefore, information provided in this table refers back to the latest year of chemical sampling results.

Regulated Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
ANTIMONY, TOTAL	7/16/2024	1.7	0 - 1.7	ppb	6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics;solder
ARSENIC	7/16/2024	1.6	0 - 1.6	ppb	10	0	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
ATRAZINE	1/22/2024	0.093	0.035 - 0.093	ppb	3	3	Runoff from herbicide used on row crops
NITRATE-NITRITE	1/22/2024	0.6	0.6	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Radionuclides	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
GROSS BETA PARTICLE ACTIVITY	1/22/2024	3.97	3.97	pCi/l	50	0	Decay of natural and man-made deposits.

Treated Secondary Contaminants	Collection Date	Highest Value	Range	Unit	SMCL
ALUMINUM	7/16/2024	5.43	0.05 - 5.43	MG/L	0.2
CHLORIDE	1/22/2024	54	54	MG/L	250
HARDNESS, TOTAL (AS CaCO3)	9/2/2024	42.9	22.5 - 42.9	MG/L	0
IRON	1/22/2024	0.03	0 - 0.03	MG/L	0.3
MANGANESE	9/2/2024	0.1	0.02 - 0.1	MG/L	0.05
PH	1/22/2024	6.59	6.59	PH	8.5
POTASSIUM	1/22/2024	4.9	3.4 - 4.9	MG/L	0
SODIUM	1/22/2024	41.9	26.8 - 41.9	MG/L	0
SULFATE	1/22/2024	29	29	MG/L	250

+++++Environmental Protection Agency Required Health Effects Language+++++  
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 microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

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. DESOTO PARISH WATER WORKS DISTRICT 1 is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact DESOTO PARISH WATER WORKS DISTRICT 1 and DAVID RYALS BUS Phone: 318-872-0004. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

**Additional Required Health Effects Language:**

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.

There are no additional required health effects violation notices.

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Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers.

We at the DESOTO PARISH WATER WORKS DISTRICT 1 work around the clock to provide top quality drinking water to every tap. We ask that all our customers help us protect and conserve our water sources, which are the heart of our community, our way of life, and our children's future. Additional information on the water system can be found at [www.ldh.la.gov/watergrade](http://www.ldh.la.gov/watergrade). Please call our office if you have questions.



**Turbidity Insert (Surface Water Only)**

**2024 Turbidity Reporting Requirements for Your CCR**

*For Turbidity, which is a Treatment Technique (TT) for **Surface Water Systems** that filter and use turbidity as an indicator of filtration performance, the CCR must report the **highest** single monthly measurement (see **Item No. 1 of the Calculations Examples below**) for the year the CCR covers. Additionally, the CCR must report the **lowest** monthly percentage of samples meeting the turbidity limits specified for the relevant Filtration Technology used (see **Item No. 2 of the Calculations Examples below**). The CCR must also provide an explanation of the reason for measuring turbidity (see **Item No. 3 of the Calculations Examples below**) and possibly some health effects language. Provided below are the **Calculations Examples** and a **CCR Appearance Example**. Below that are the established **Regulations on Turbidity Limits** for each of the different Filtration Technologies.*

**CALCULATIONS EXAMPLES**

**ITEM NO. 1** - Your system should have the following data available from its Monthly Operating Reports (MORs):

**Month**                      **Highest Finished/Combined Effluent Turbidity (for the month)** – This is example data. Your system's data should be pulled from the MORs.

January	0.21
February	0.07
March	<b>0.50</b>
April	0.09
May	0.097
June	0.06
July	0.05
August	0.02
September	0.045
October	0.11
November	0.085
December	0.075

In this example, the **Highest** Single Monthly Finished/Combined Turbidity Measurement occurred in March with a reading of 0.50 NTU. Therefore, you would have to include this result (0.50 NTU) in the Contaminant Listing Table of your CCR.

Regulated Contaminants	Collection Date	Highest Value	Range	Unit	MC L	MCL G	Typical Source
<b>TURBIDITY</b>	<b>3/7/2024</b>	<b>0.50</b>	<b>0.07 - 0.50</b>	<b>NTU</b>	<b>0.3</b>		<b>Soil runoff</b>

**[Note: Turbidity values may be pre-populated under the heading "Regulated Contaminants" in the base CCR as shown below. These values show data from the point of entry and need to be corrected to show the appropriate turbidity limits of the combined effluent.]**

## Addendum to Consumer Confidence Report (CCR) - Water We Drink

### ITEM NO. 2 -

For each month of data (see your system's Monthly Operating Reports), take each day's Finished/Combined turbidity sampling results and determine the total number of those samples collected each month (if finished water turbidity samples are collected 6 times a day, everyday of a 31-day month, then you would have a monthly total of  $6 \times 31 = 186$  samples collected). Next count the number of samples that exceeded the turbidity limit each month for your particular Filtration Technology (see **Regulations Section** below for turbidity limits). For the example, assume the water system uses Conventional Filtration and serves a population of 9,999 people. Therefore, the turbidity limit is 0.3 NTU 95% of the time (from **Item B** in the **Regulations on Turbidity Limits** section below). After figuring out the number of samples that exceeded the turbidity limit for each month, subtract that number from the total number of samples collected for each month. This will give you the number of samples that were within the Turbidity Limits for each month. Divide this number for each month by the total number of samples collected for each month and multiply by 100 to get your Monthly Percentage of Samples Meeting the Turbidity Limits. In the table below, is an example summary of this.

<u>Month</u>	<u>Total # of Samples</u>	<u>Turb. Limit</u>	<u># of Samples Above Turb. Limit</u>	<u>Monthly % of Samples Meeting the Turb. Limit</u>
January	186	0.3	6	$\{(186 - 6)/186\} \times 100 = 96.8\%$
February	186	0.3	3	$\{(186 - 3)/186\} \times 100 = 98.4\%$
March	186	0.3	0	$\{(186 - 0)/186\} \times 100 = 100\%$
April	186	0.3	10	$\{(186 - 10)/186\} \times 100 = 94.6\%$
May	186	0.3	6	$\{(186 - 6)/186\} \times 100 = 96.8\%$
June	186	0.3	15	$\{(186 - 15)/186\} \times 100 = \mathbf{91.9\%}$
July	186	0.3	4	$\{(186 - 4)/186\} \times 100 = 97.8\%$
August	186	0.3	5	$\{(186 - 5)/186\} \times 100 = 97.3\%$
September	186	0.3	5	$\{(186 - 5)/186\} \times 100 = 97.3\%$
October	186	0.3	1	$\{(186 - 1)/186\} \times 100 = 99.5\%$
November	186	0.3	2	$\{(186 - 2)/186\} \times 100 = 98.9\%$
December	186	0.3	3	$\{(186 - 3)/186\} \times 100 = 98.4\%$

For the CCR, you must report the Lowest Monthly Percentage of Samples Meeting the Turbidity Limits. According to the data above, the result for the month of June had the Lowest Percentage of Samples Meeting the Turbidity Limits = 91.9%. Therefore, you would have to include this result (91.9%) in the Contaminant Listing Table of your CCR (see **CCR Appearance Example**).

**ITEM NO 3 – Mandatory Turbidity Statements** – The first statement listed below is required to be stated in the CCR near your Turbidity Results (see **CCR Appearance Example**):

“Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. The major sources of turbidity include soil runoff.”

The following statement is additionally required, only if you did not meet your turbidity limits (TT values) for the Highest Monthly Finished/Combined Sample and/or the Lowest Monthly Percentage of Samples Meeting the Turbidity Limit (see the **Regulations Section** on the last page to determine your systems TT Values):

“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.”



## Addendum to Consumer Confidence Report (CCR) - Water We Drink

### CCR APPEARANCE EXAMPLE (Contaminant Listing Table)

Below is an example of how the above Calculation Example would appear in the CCR. The Turbidity Results calculated above should appear in your CCRs Contaminant Listing Table, which looks similar to the table below (the Copper result in the table below is just an example of any other contaminant that could appear in your table). Your results should appear in this format. Please note the informational language at the bottom. The first three sentences of the "NOTE:" are required in all CCRs that must present Turbidity results. The rest of the "NOTE:" is required only if a Treatment Technique (TT) Value was not met. In the Example below, the Lowest Monthly Percentage of Samples Meeting the Turbidity Limit (of 0.3 NTU) was 91.9% during the month of June, which is less than the required 95% of the samples. Thus, the TT Value was not met, which required the extra Turbidity language as shown.

#### EXAMPLE:

Regulated Contaminants	Collection Date	Lowest Percentage Value	Range	Unit	MC L	MCL G	Typical Source
<b>TURBIDITY</b>	<b>6/2024</b>	<b>91.9</b>	<b>91.9 - 100</b>	<b>NTU</b>	<b>0.3</b>		<b>Soil runoff</b>

NOTE: Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. Its major sources include soil runoff. 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.

### REGULATIONS ON TURBIDITY LIMITS

\*From 40 CFR, Part 141.73 and 141.173 – Turbidity Requirements for Surface Water Systems that Filter by:

**A. Conventional Filtration Treatment or Direct Filtration (For all size systems on or after January 14, 2005):**

- The turbidity level of representative samples of a system's filtered water must be less than or equal to 0.3 NTU in at least 95 percent of the measurements taken each month (The Treatment Technique (TT) Value for the Lowest Monthly Percentage of Samples Meeting the Turbidity Limit is 0.3 NTU in 95% of the samples).
- The turbidity level of representative samples of a system's filtered water must at no time exceed 1 NTU (The TT Value for the Highest Monthly Finished/Combined Sample is 1 NTU).

**B. Slow Sand Filtration (For all size systems):**

- The turbidity level of representative samples of a system's filtered water must be less than or equal to 1 NTU in at least 95 percent of the measurements taken each month (The TT Value for the Lowest Monthly Percentage of Samples Meeting the Turbidity Limit is 1 NTU in 95% of the samples).



## Addendum to Consumer Confidence Report (CCR) - Water We Drink

- The turbidity level of representative samples of a system's filtered water must at no time exceed 5 NTU (The TT Value for the Highest Monthly Finished/Combined Sample is 5 NTU).

### **C. Diatomaceous Earth Filtration (For all size systems):**

- The turbidity level of representative samples of a system's filtered water must be less than or equal to 1 NTU in at least 95 percent of the measurements taken each month (The TT Value for the Lowest Monthly Percentage of Samples Meeting the Turbidity Limit is 1 NTU in 95% of the samples).
- The turbidity level of representative samples of a system's filtered water must at no time exceed 5 NTU (The TT Value for the Highest Monthly Finished/Combined Sample is 5 NTU).

### **D. Other Filtration Technologies (For all size systems):**

- The turbidity level of representative samples of a system's filtered water must be less than or equal to 1 NTU in at least 95 percent of the measurements taken each month (The TT Value for the Lowest Monthly Percentage of Samples Meeting the Turbidity Limit is 1 NTU in 95% of the samples).
- The turbidity level of representative samples of a system's filtered water must at no time exceed 5 NTU (The TT Value for the Highest Monthly Finished/Combined Sample is 5 NTU).

NEED HELP? FEEL FREE TO CONTACT THE LDHH/OPH CCR PROGRAM MANAGER  
@ 225-342-0272 FOR ASSISTANCE WITH YOUR TURBIDITY CALCULATIONS.