



ANNUAL DRINKING WATER QUALITY REPORT

2024

Lancaster Drinking Water Quality Report



Why you have received this report:

This report is produced to provide information about the Lancaster water system including source water, the levels of detected contaminants and compliance with drinking water rules. This report is also produced in order to answer your water quality questions. Regular monthly tests are conducted on Lancaster water to ensure that it is clean and meets all water quality requirements.

Special notice for the elderly, infants, cancer patients, people with HIV/AIDS and other immune problems:

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

Other Helpful Telephone Numbers:

For questions about water quality, field operations, water conservation, or this report, contact Public Works Superintendent Shawn Wood at 972-218-2325. For billing inquiries, call Utility Billing at 972-218-1328.

Where your water comes from:

The City of Lancaster purchases its water from Dallas Water Utilities (DWU). DWU uses and treats surface water from seven sources: the Elm Fork of the Trinity River and lakes Ray Roberts, Lewisville, Grapevine, Ray Hubbard, Tawakoni and Fork. 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 United States Environmental Protection Agency (EPA) Safe Drinking Water Hotline at 1-800-426-4791. In order to ensure that tap water is safe to drink, United States EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. United States Food and Drug Administration, which provides the same protection for public health, prescribe regulations which establish limits for contaminants in bottled water.

2024  972-275-1752
(CONSUMER CONFIDENCE REPORT)

Water Quality Data Report 2024

This is a summary of water quality data for both Lancaster and information provided by its treated water supplier Dallas Water Utilities. The list includes parameters which DWU currently tests for, in accordance with Federal and State Water Quality Regulations. The frequency of testing varies depending on the parameters and are in compliance with established standards. Dallas Water Utilities and Lancaster is a "Superior" Rated Water System by Texas Commission on Environmental Quality. All three water treatment plants are optimized and certified by meeting the Texas Optimization Program and partnership for safe drinking water criteria. Dallas and Lancaster water exceeds Federal and State water quality parameters.

CONTAMINANT	YEAR OF RANGE	LEVEL					Source of Contaminants	
		Average	Minimum	Maximum	MCL	MCLG	Units of Measure	
Inorganic Contaminants								
Fluoride	2024	0.629	0.598	0.664	4	4	ppm	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate (as N)	2024	0.39	0.25	0.66	10	10	ppm	Run-off from fertilizer use; leaching from septic tanks, sewage, erosion of natural deposits.
Nitrite (as N)	2024	0.05	0.05	0.05	1	1	ppm	Run-off from fertilizer use; leaching from septic tanks, sewage, erosion of natural deposits.
Barium	2024	0.04	0.033	0.045	2	2	ppm	Discharge of drilling waste; Discharge from metal refineries; erosion of natural deposits.
Cyanide	2024	54	0	118	200	200	ppb	Discharge from steel /metal factories, discharge from plastic and fertilizer factories.
Mercury	2024	0.08	0	0.252	2	2	ppb	Erosion of natural deposits, discharge from refineries and factories, runoff from landfills, runoff from cropland.
Aluminum	2024	0.006	0	0.011	0.05-02	N/A	ppm	Secondary MCL
Manganese	2024	2.7	0	4.9	50	N/A	ppb	Secondary MCL
Radioactive Contaminants								
Gross Beta particle activity	2023	5.7	5.3	6.2	50	0	pCi/L****	Decay of natural or man-made deposits.

Organic Contaminants								
Atrazine	2024	0.08	0	0.15	3	3	ppb	Runoff from herbicide on row crops.
Simazine	2024	0.06	0	0.11	4	4	ppb	Herbicide runoff.
Disinfection By Products								
Highest LRAA								
Total Haloacetic Acid***	2024	18.11	14.8	21.9	60	N/A	ppb	By-product of drinking water disinfection.
Total Trihalomethanes	2024	6.72	3.6	10.6	80	N/A	ppb	By-product of drinking water disinfection.
Bromate	2023	4.6	0	14.2	10 ⁶	0	ppb	By-product of drinking water disinfection.

Total Organic Carbon								
TT (no MCL)****								
Total Organic Carbon	2024	3.27	2.35	4.23	35% removal/SUVA ₂		ppm	Naturally present in the environment.

Disinfectant								
Total Chlorine Residual	2024	3	Minimum 2.95	Maximum 3.05	MRDL 4*	MRDLG 4*	ppm	Water additive used to control microbes

Lead and Copper								
90th in percentile** # of sites exceeding action level								
Lead	2022	0.001867	0	AL15	0		ppb	Corrosion of household plumbing systems; erosion of natural deposits
Copper	2022	0.1074	0	AL1.3	1.3		ppm	Corrosion of household plumbing systems; erosion of natural deposits.

Turbidity								
Level Detected Limit(TT)								
Highest Single Measurement	2024	0.51		1			NTU	Soil Runoff.
Lowest monthly % meeting limit	2024	100%		95% of readings ≤0.3			NTU	Soil Runoff.

Total Coliforms								
Highest Monthly % of Positive Samples								
Total Coliforms Bacteria	2024	0.00%		5% or more of monthly samples			Found/Not Found	Naturally present in the environment.

* as annual average
 ** 90 percentile value in the distribution system
 *** Haloacetic Acids - five species
 **** 60 pCi/L - 4 mrem/yr
 ***** Treatment technique requires 35% removal or SUVA₂. The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements.
 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. We are responsible for providing high quality drinking water, but we 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>.

A list of all Service Line Inventory, including Lead & Copper Line Inventory has been prepared by the City. It can be found in the city website by clicking on this link. <https://www.lancaster-tx.com/DocumentCenter/View/18416/City-of-Lancaster-Water-Service-Line-Inventory>

Unregulated Contaminants

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminants monitoring is to assist the EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. Any unregulated contaminants detected are reported in the following table. For additional information and data visit <http://www.epa.gov/safewater/ucmr/ucmr2/index.html>, or call the Safe Drinking Water Hotline at (800) 426-4791.

CONTAMINANT	YEAR OF RANGE	LEVEL					Source of Contaminants	
		Average	Minimum	Maximum	MCL	MCLG	Unit of Measure	
Chloroform	2024	3.9	2.5	5.2	n/a	70	ppb	Byproduct of drinking water disinfection.
Bromoform	2024	2.41	1.14	4.45	N/A	0	ppb	Byproduct of drinking water disinfection.
Bromodichloromethane	2024	5.81	4.9	7.63	N/A	0	ppb	Byproduct of drinking water disinfection.
Dibromochloromethane	2024	5.98	4.12	7.59	N/A	60	ppb	Byproduct of drinking water disinfection.

UCMR 5: Unregulated Contaminants Monitoring Rule 5

The UCMR program was developed in coordination with the Contaminant Candidate List (CCL). The CCL is a list of contaminants that are not regulated by the National Primary Drinking Water regulations, are known or anticipated to occur at public water systems and may warrant regulation under the Safe Drinking Water Act. Data collected through UCMR are stored in the National Contaminant Occurrence Database (NCOD) to support analysis and review of contaminant occurrence, to guide the CCL selection process and to support the Administrator's determination of whether to regulate a contaminant in the interest of protecting public health. The table below contains the contaminants that were detected. For additional information visit: <https://www.epa.gov/dwucmr/fifth-unregulated-contaminant-monitoring-rule>, or call Lancaster at (972) 218-2325.

CONTAMINANT	YEAR OF RANGE	LEVEL					Source of Contaminants	
		Average	Minimum	Maximum	MCL	MCLG	Unit of Measure	
1-Chloroelcosufuro-3-oxaundere-1sulfonic acid	2023	0.00492	0.00488	0.00495	N/A	N/A	ppt	Disposal of waste and sewage sludge and as a result of fire-fighting activities and training. Industrial processes that manufacture or use fluorochemicals
1H,1H,2H,2H,-Perfluorodecane sulfonic acid (8:2 FTS)	2023	0.00492	0.00488	0.00495	N/A	N/A	ppt	
1H,1H,2H,2H,-Perfluorodecane sulfonic acid (6:2 FTS)	2023	0.003937	0.00391	0.00396	N/A	N/A	ppt	
1H,1H,2H,2H,-Perfluorodecane sulfonic acid (4:2 FTS)	2023	0.002953	0.00293	0.00297	N/A	N/A	ppt	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2023	0.002953	0.00293	0.00297	N/A	N/A	ppt	
9-Chlorohexadecafluoro-3oxanonane-1-sulfonic acid	2023	0.001967	0.00195	0.00198	N/A	N/A	ppt	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) (GenX)	2023	0.00492	0.00488	0.00495	N/A	N/A	ppt	
N-ethylperfluorooctanesulfonamidoacetic acid (NEFOSAA)	2023	ND	ND	ND	N/A	N/A	ppt	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2023	ND	ND	ND	N/A	N/A	ppt	
Nonafluoro-3, 6-dioxaheptanoic acid (NFDHA)	2023	0.015667	0.0195	0.0198	N/A	N/A	ppt	
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2023	0.002953	0.0029	0.00297	N/A	N/A	ppt	
Perfluoro-3-methoxypropanoic acid (PFMPA)	2023	0.003937	0.0039	0.00396	N/A	N/A	ppt	
Perfluoro-4-methoxybutanoic acid (PFMBA)	2023	0.002953	0.00293	0.00297	N/A	N/A	ppt	
Perfluorobutanesulfonic acid (PFBS)	2023	0.004607	0.00382	0.00557	N/A	N/A	ppt	
Perfluorobutanoic acid (PFBA)	2023	0.008893	0.0049	0.0118	N/A	N/A	ppt	
Perfluorodecanoic acid (PFDA)	2023	0.002953	0.00293	0.00297	N/A	N/A	ppt	
Perfluorododecanoic acid (PFDoA)	2023	0.00361	0.00293	0.00493	N/A	N/A	ppt	
Perfluoroheptanesulfonic acid (PFHpS)	2023	0.002953	0.00293	0.00297	N/A	N/A	ppt	
Perfluoroheptanoic acid (PFHpA)	2023	0.002953	0.00293	0.00297	N/A	N/A	ppt	
Perfluorohexanesulfonic acid (PFHxS)	2023	0.002953	0.00293	0.00297	N/A	N/A	ppt	
Perfluorohexanoic acid (PFHxA)	2023	0.005983	0.00591	0.00604	N/A	N/A	ppt	
Perfluorononanoic acid (PFNA)	2023	0.003937	0.00391	0.00396	N/A	N/A	ppt	
Perfluorooctanesulfonic acid (PFOS)	2023	0.003937	0.00391	0.00396	N/A	N/A	ppt	
Perfluorooctanoic acid (PFOA)	2023	0.003937	0.00391	0.00396	N/A	N/A	ppt	
Perfluoropentanesulfonic acid (PFPeS)	2023	0.003937	0.00391	0.00396	N/A	N/A	ppt	
Perfluoropentanoic acid (PFPeA)	2023	0.006093	0.00544	0.00676	N/A	N/A	ppt	
Perfluorotetradecanoic acid (PFTA)	2023	ND	ND	ND	N/A	N/A	ppt	
Perfluorotriecanoic acid (PFTDA)	2023	ND	ND	ND	N/A	N/A	ppt	
Perfluoroundecanoic acid (PFUnA)	2023	0.001967	0.00195	0.00198	N/A	N/A	ppt	
Lithium	2023	9	9	9	N/A	N/A	ppt	