
CITY OF MOUNT ZION

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CITY OF MOUNT ZION WATER SYSTEM - WSID #0450003 - 2022 WATER QUALITY REPORT

(This report covers the *calendar year 2022* testing.)

WHO PROVIDES MY WATER?

YOU ARE A CUSTOMER OF THE CITY OF MOUNT ZION WATER SYSTEM. WE TAKE THE RESPONSIBILITY OF DISTRIBUTING WATER TO YOU IN A MANNER SAFE TO OUR CUSTOMERS AND RESPECTFUL OF ENVIRONMENTAL CONCERNS. MOUNT ZION WATER SYSTEM PURCHASES WATER FROM THE CARROLL COUNTY WATER AUTHORITY.

WHERE DOES MY WATER COME FROM?

IN 2022 YOUR DRINKING WATER CAME FROM ONE OF THE FOLLOWING SOURCES: THE SNAKE CREEK RESERVOIR OR AN UNDERGROUND AQUIFER.

THE RESERVOIR IS CAPABLE OF SUPPLYING 8.6 MILLION GALLONS PER DAY (MGD) OF RAW WATER TO BE TREATED FOR POTABLE USE.

WATER FROM THE UNDERGROUND AQUIFERS IS PUMPED INTO THE DISTRIBUTION SYSTEM THROUGH THE ABILENE, LAKE PARADISE AND BETHESDA WELLS. THESE WELLS HAVE A COMBINED PERMITTED CAPACITY OF 0.75 MGD.

WHO CAN I CONTACT WHEN I HAVE DRINKING WATER QUESTIONS?

CONTACT PERSONS FOR WATER RELATED QUESTIONS ARE DAN HENDERSON OR TAMMY HYDE, WHO CAN BE REACHED MONDAY - FRIDAY, 8:00A.M. - 4:30 P.M. AT 770-832-1622.

INDIVIDUAL REPORTS **WILL NOT** BE MAILED BUT ARE AVAILABLE ALONG WITH SOURCE WATER ASSESSMENT INFORMATION UPON REQUEST AT CITY HALL; THE CCR IS AVAILABLE AT THE MOUNT ZION POST OFFICE, COMMUNITY CENTER OR ON OUR WEB SITE, cityofmountzion.com. THE MOUNT ZION CITY COUNCIL MEETS THE SECOND TUESDAY OF EACH MONTH AT 7:00 P.M. (UNLESS OTHERWISE ANNOUNCED IN THE LOCAL NEWSPAPER). ANY QUESTIONS REGARDING WATER MAY BE ADDRESSED AT THESE MEETINGS. THE PUBLIC IS ALWAYS WELCOME TO ATTEND.

WHY THIS REPORT?

FEDERAL REGULATIONS REQUIRE ALL PUBLIC WATER SYSTEMS TO PROVIDE ANNUAL REPORTS TO CUSTOMERS ON THE QUALITY OF THEIR DRINKING WATER. REPORTS ARE AVAILABLE BY JULY 1 OF EACH YEAR.

THIS REPORT COVERS THE CALENDAR YEAR **2022** (lead & copper tested in 2020).

IS MY WATER SAFE?

YES. THE CITY OF MOUNT ZION HAS NOT HAD ANY WATER VIOLATIONS DURING THE 2022 CALENDAR YEAR. RESULTS OF REQUIRED TESTING CAN BE INSPECTED AT CITY HALL.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

THE AVERAGE PERSON DOES NOT NEED TO TAKE SPECIAL PRECAUTIONS. HOWEVER, 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 (1-800-426-4791 or <http://www.epa.gov/safewater/lead>).

WHY ARE THERE CONTAMINANTS IN THE WATER SUPPLY?

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).

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 INCLUDE THE FOLLOWING:

- 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 STORM 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.
FOR STATUS AND A COPY OF SOURCE WATER ASSESSMENT/WELL-HEAD PROTECTION PLAN CALL CCWA @ 770-832-1277.

WATER QUALITY DATA TABLE-2022

THE TABLE BELOW LISTS ALL OF THE DRINKING WATER CONTAMINANTS THAT WERE DETECTED DURING THE CALENDAR YEAR OF THIS REPORT (2022). THE PRESENCE OF CONTAMINANTS IN THE WATER DOES NOT NECESSARILY INDICATE THAT THE WATER POSES A HEALTH RISK. THE EPA OR THE STATE REQUIRES MONITORING FOR CERTAIN CONTAMINANTS LESS THAN ONCE PER YEAR BECAUSE THE CONCENTRATIONS DO NOT CHANGE FREQUENTLY. SINCE THE CITY OF MOUNT ZION PURCHASES ITS WATER FROM CARROLL COUNTY WATER AUTHORITY, IT IS APPROPRIATE TO PRESENT THEIR DATA ON THE FOLLOWING TABLE.

IMPORTANT DRINKING WATER DEFINITIONS:

MCL: MAXIMUM CONTAMINANT LEVEL: 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.

MCLG: MAXIMUM CONTAMINANT LEVEL GOAL: THE LEVEL OF A CONTAMINANT IN DRINKING WATER BELOW WHICH THERE IS NO KNOWN OR EXPECTED RISK TO HEALTH. MCLG'S ALLOW FOR A MARGIN OF SAFETY.

CONTAMINANTS (UNITS)	MCLG	MCL	MOUNT ZION WATER	RANGE LOW - HIGH	VIOLATION	TYPICAL SOURCE
INORGANIC CONTAMINANTS						
FLUORIDE (PPM)	4	4	.70	0.1-1.0	NO	WATER ADDITIVE WHICH PROMOTES STRONG TEETH. EROSION OF NATURAL DEPOSITS, DISCHARGE FROM FERTILIZER AND ALUMINUM FACTORIES
NITRATE (MEASURED AS NITROGEN) (PPM)	10	10	.2	ND-1.5	NO	RUNOFF FROM FERTILIZER USE; LEACHING FROM SEPTIC TANKS, SEWAGE; EROSION OF NATURAL DEPOSITS.
TURBIDITY (NTU)	NA	TT	0.09	0.06-0.37	NO	NATURALLY PRESENT IN THE ENVIRONMENT; SOIL RUNOFF.
MICROBIOLOGICAL CONTAMINANTS						
TOTAL COLIFORM (% OF MONTHLY POSITIVE SAMPLES)	0	TT	0.00%	0	NO	NATURALLY PRESENT IN THE ENVIRONMENT
VOLATILE ORGANIC CONTAMINANTS						
TOTAL HALOACETIC ACIDS [HHA5] (PPB)	NA	60	31.9	15.2-32.0	NO	BY-PRODUCT OF DRINKING WATER DISINFECTION
TOTAL TRIHALOMETHANES [TTHM] (PPB)	NA	80	63.6	16.5-93.2	NO, BASED ON LRRA	BY PRODUCT OF DRINKING WATER DISINFECTION
LEAD AND COPPER						
COPPER (PPM)	1.3	0	0.0	N/A	NO	CORROSION OF HOUSEHOLD PLUMBING SYSTEMS
LEAD (PPB)	15	0	0.037	N/A	NO	CORROSION OF HOUSEHOLD PLUMBING SYSTEMS

UNITS DESCRIPTION:

PPM: PARTS PER MILLION

PPB: PARTS PER BILLION

TT: TREATMENT TECHNIQUE - A REQUIRED PROCESS INTENDED TO REDUCE THE LEVEL OF A CONTAMINANT IN DRINKING WATER

NTU: NEPHELOMETRIC TURBIDITY UNITS (A MEASURE OF WATER CLARITY)

N/A: NOT APPLICABLE

ND: NOT DETECTED

% OF MONTHLY SAMPLES: PERCENT OF SAMPLES TAKEN MONTHLY THAT WERE POSITIVE